

# SEARCH REQUEST FORM

Requester's Full Name: Cecilia Jajale Examinee #: [REDACTED] Date: 4-3-08  
 Art Unit: 1624 Phone Number: 2-9931 Social Number: 10590286  
 Location (Bldg/Room): RESEARCH (Mailbox #) 5018 Results Format Preferred (select): PAPER DISK

1510 To ensure an efficient and quality search, please attach a copy of the cover sheet, synopsis, and abstract or fill out the following:

Title of Invention: See Bib Data Sheet

Inventors (please provide full name(s))

Earliest Priority Date:

Feb 2014 - Present

[illegible]

\*For Sequence Starts Only\* Please include all pertinent information (patient, date, diagnosis, or brand name) plus any other appropriate test results.

See claims attached. Please do structure search and inventor name(s) search. Display results to show identification of source, and R<sup>1</sup>, compound name & structure of identified compounds. Search compounds of formula I where A is phenyl with additions as noted.

Please call with any questions

STAFF USE ONLY

### Types of Search

Vendor and cost where applicable

☆ 4-4594

H.A. Sengul et al. / *Journal of Macroeconomics* 29 (2007) 101–115

93

Below

## Sommer 2006

6. Explain the following:

Casey, 2004]

Abstract

Stuyvesant, Louisiana

Volume 23

481

[illegible]

1976: 36 cmphal. Plectel: 12.3

Elte carnabla

10120 5E109C 38 8755 0101

Date Completed: \_\_\_\_\_

## Discussion

Figure 1

... ..  
... ..

© 2011 Pearson Education, Inc. All rights reserved.

441162

— ...  $\mathcal{O}(n^2)$  ...

Crane Time:

5113

## Author Search

=> FILE HCAPLUS

FILE 'HCAPLUS' ENTERED AT 12:18:42 ON 15 APR 2008

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 15 Apr 2008 VOL 148 ISS 16

FILE LAST UPDATED: 14 Apr 2008 (20080414/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

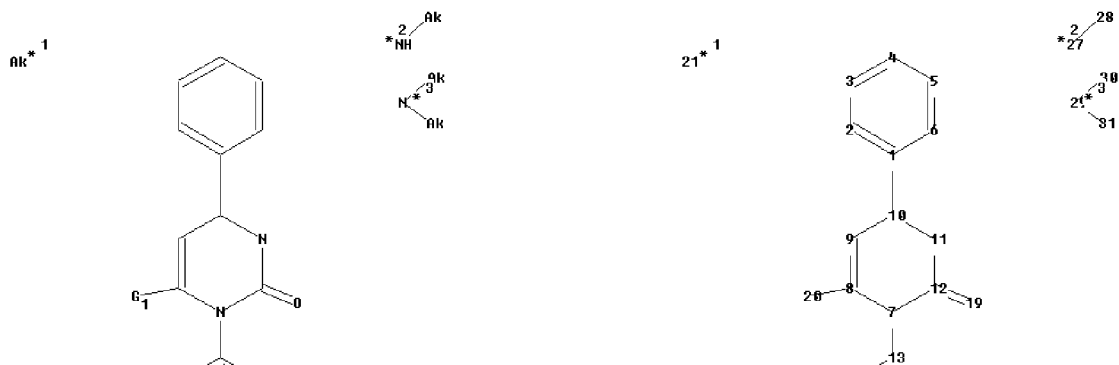
=> D QUE L44

L17	17	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	GIELEN-HAERTWIG H?/AU
L18	233	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	ALBRECHT B?/AU
L19	92	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	KELDENICH J?/AU
L20	843	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	LI V?/AU
L21	51	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	PERNERSTORFER J?/AU
L22	117	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	SCHLEMMER K?/AU
L23	22	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	TELAN L?/AU
L24	1299	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	(L17 OR L18 OR L19 OR L20 OR L21 OR L22 OR L23)
L38		STR				

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation:

Uploading strD.str



chain nodes :  
 19 20 21 27 28 29 30 31  
 ring nodes :  
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18  
 chain bonds :  
 1-10 7-13 8-20 12-19 27-28 29-30 29-31  
 ring bonds :  
 1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 13-14 13-18 14-15  
 15-16 16-17 17-18  
 exact/norm bonds :  
 1-10 7-8 7-12 7-13 8-9 8-20 9-10 10-11 11-12 12-19 13-14 13-18 14-15  
 15-16 16-17 17-18 27-28 29-30 29-31  
 normalized bonds :  
 1-2 1-6 2-3 3-4 4-5 5-6

G1:H,NH2, [\*1], [\*2], [\*3]

G2:C,N

Match level :  
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS  
 20:CLASS 21:CLASS  
 27:CLASS 28:Atom 29:CLASS 30:CLASS 31:CLASS  
 Element Count :  
 Node 21: Limited  
 C,C1-4

L40 768 SEA FILE=REGISTRY SSS FUL L38  
 L42 20 SEA FILE=HCAPLUS ABB=ON PLU=ON L40  
 L43 15 SEA FILE=HCAPLUS ABB=ON PLU=ON L42 AND (PRY<=2005 OR

Serial No.:10/590,786

AY<=2005 OR PY<=2005)

L44 5 SEA FILE=HCAPLUS ABB=ON PLU=ON L24 AND L43

=> FILE WPIX

FILE 'WPIX' ENTERED AT 12:18:52 ON 15 APR 2008

COPYRIGHT (C) 2008 THE THOMSON CORPORATION

FILE LAST UPDATED: 12 APR 2008 <20080412/UP>

MOST RECENT THOMSON SCIENTIFIC UPDATE: 200824 <200824/DW>

DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

>>> IPC Reform backfile reclassification has been loaded to the end of November 2007. No update date (UP) has been created for the reclassified documents, but they can be identified by 20060101/UPIC and 20061231/UPIC, 20070601/UPIC, 20071001/UPIC and 20071130/UPIC. <<<

FOR A COPY OF THE DERWENT WORLD PATENTS INDEX STN USER GUIDE, PLEASE VISIT:

[http://www.stn-international.de/training\\_center/patents/stn\\_guide.pdf](http://www.stn-international.de/training_center/patents/stn_guide.pdf)

FOR DETAILS OF THE PATENTS COVERED IN CURRENT UPDATES, SEE

<http://scientific.thomson.com/support/patents/coverage/latestupdates/>

EXPLORE DERWENT WORLD PATENTS INDEX IN STN ANAVIST, VERSION 2.0:

[http://www.stn-international.com/archive/presentations/DWPIAnaVist2\\_0710.pdf](http://www.stn-international.com/archive/presentations/DWPIAnaVist2_0710.pdf)

>>> XML document distribution format now available - See HELP XMLDOC <<<

>>> ECLA Codes and Current US National Classifications have been added - see NEWS and HELP CHANGE <<<

>>> HELP for European Patent Classifications see HELP ECLA, HELP ICO <<<

>>> Updated PDF files in the following links:

[http://www.stn-international.de/stndatabases/details/ico\\_0803.zip](http://www.stn-international.de/stndatabases/details/ico_0803.zip)

[http://www.stn-international.de/stndatabases/details/epc\\_0803.zip](http://www.stn-international.de/stndatabases/details/epc_0803.zip)

Supplement of all changed ECLA items:

[http://www.stn-international.de/stndatabases/details/ecla\\_0803s.zip](http://www.stn-international.de/stndatabases/details/ecla_0803s.zip) <<<

'BI,ABEX' IS DEFAULT SEARCH FIELD FOR 'WPIX' FILE

=> D QUE L48

L17	17	SEA FILE=HCAPLUS ABB=ON	PLU=ON	GIELEN-HAERTWIG H?/AU
L18	233	SEA FILE=HCAPLUS ABB=ON	PLU=ON	ALBRECHT B?/AU
L19	92	SEA FILE=HCAPLUS ABB=ON	PLU=ON	KELDENICH J?/AU
L20	843	SEA FILE=HCAPLUS ABB=ON	PLU=ON	LI V?/AU
L21	51	SEA FILE=HCAPLUS ABB=ON	PLU=ON	PERNERSTORFER J?/AU
L22	117	SEA FILE=HCAPLUS ABB=ON	PLU=ON	SCHLEMMER K?/AU
L23	22	SEA FILE=HCAPLUS ABB=ON	PLU=ON	TELAN L?/AU
L24	1299	SEA FILE=HCAPLUS ABB=ON	PLU=ON	(L17 OR L18 OR L19 OR L20 OR L21 OR L22 OR L23)
L38		STR		

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation.

L46 117 SEA FILE=WPIX SSS FUL L38

L47 7 SEA FILE=WPIX ABB=ON PLU=ON L46/DCR

L48 5 SEA FILE=WPIX ABB=ON PLU=ON L47 AND L24

=> DUP REM L44 L48

FILE 'HCAPLUS' ENTERED AT 12:19:02 ON 15 APR 2008  
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
 COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'WPIX' ENTERED AT 12:19:02 ON 15 APR 2008

COPYRIGHT (C) 2008 THE THOMSON CORPORATION

PROCESSING COMPLETED FOR L44

PROCESSING COMPLETED FOR L48

L54 6 DUP REM L44 L48 (4 DUPLICATES REMOVED)

ANSWERS '1-5' FROM FILE HCAPLUS

ANSWER '6' FROM FILE WPIX

=> D IBIB ED ABS FHITSTR L54 1-5; D IBIB AB HITSTR 6 L54

L54 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 1

ACCESSION NUMBER: 2006:608538 HCAPLUS Full-text

DOCUMENT NUMBER: 145:58204

TITLE: Crystal structure of human neutrophil elastase and  
 uses in drug discovery

INVENTOR(S): Reinemer, Peter; Gielen-Haertwig, Heike;  
 Rosentreter, Ulrich; Li, Volkhart; Harrenga,  
 Axel; Schomburg, Dietmar; Niefind, Karsten; Hansen,  
 Guido

PATENT ASSIGNEE(S): Bayer Healthcare AG, Germany

SOURCE: PCT Int. Appl., 123 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006063792	A2	20060622	WO 2005-EP13370	20051213 <--
WO 2006063792	A3	20070412		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA			
CA 2590851	A1	20060622	CA 2005-2590851	20051213 <--
EP 1828233	A2	20070905	EP 2005-819949	20051213 <--
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU			
PRIORITY APPLN. INFO.:			EP 2004-29768	A 20041216 <--
			WO 2005-EP13370	W 20051213 <--

ED Entered STN: 23 Jun 2006

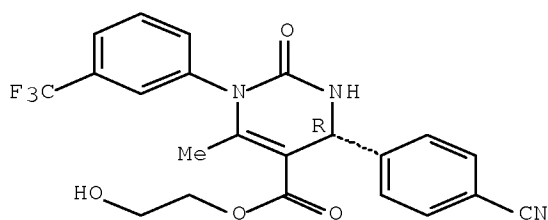
AB This invention relates to crystallized human neutrophil elastase and the use of its three-dimensional structure to design modulators for human neutrophil elastase. The crystal structure and the atomic structural coordinates of human neutrophil elastase and inhibitor complexes is disclosed.

IT 675103-34-1DP, complexes with elastase  
 RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of elastase inhibitor; crystal structure of human neutrophil elastase and uses in drug discovery)

RN 675103-34-1 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, 2-hydroxyethyl ester, (4R)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L54 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 2

ACCESSION NUMBER: 2005:979623 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 143:286441

TITLE: Preparation of diaryl-dihydropyrimidin-2-ones as human neutrophil elastase inhibitors

INVENTOR(S): Gielen-Haertwig, Heike; Albrecht, Barbara; Keldenich, Joerg; Li, Volkhart; Pernerstorfer, Josef; Schlemmer, Karl-Heinz; Telan, Leila

PATENT ASSIGNEE(S): Bayer Healthcare A.-G., Germany

SOURCE: PCT Int. Appl., 141 pp.  
 CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005082864	A1	20050909	WO 2005-EP1486	20050215 <--
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,			

Serial No.:10/590,786

RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,  
MR, NE, SN, TD, TG

CA 2557271	A1	20050909	CA 2005-2557271	20050215 <--
EP 1723121	A1	20061122	EP 2005-707386	20050215 <--
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
JP 2007524696	T	20070830	JP 2007-500099	20050215 <--
US 20080064704	A1	20080313	US 2007-590770	20070618 <--
PRIORITY APPLN. INFO.:			EP 2004-4314	A 20040226 <--
			WO 2005-EP1486	W 20050215 <--

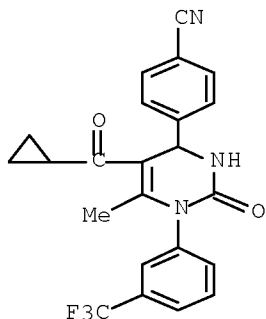
OTHER SOURCE(S): MARPAT 143:286441  
ED Entered STN: 08 Sep 2005  
GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Title compds. I [A = aryl or heteroaryl ring; R1, R2 and R3 independently = H, halo, nitro, etc.; R4 = (un)substituted alkyl, cycloalkylcarbonyl, alkylcarbonyl, etc.; R5 = (un)substituted alkyl; R6 = H, formyl, aminocarbonyl, etc.; R7 = cyano, OH, nitro, etc.; V, W, X, Y and Z independently = CH or N wherein the ring contains either 0, 1 or 2 nitrogen atoms] and their pharmaceutically acceptable salts, are prepared and disclosed as human neutrophil elastase (HNE) inhibitors. Thus, e.g., II was prepared by cyclization of N-[3-(trifluoromethyl)phenyl]urea and 4-cyanobenzaldehyde with ethyl-3-oxobutanoate and subsequent reduction using LAH. The activity of I against HNE was evaluated in an in vitro enzyme assay utilizing a fluorogenic peptide substrate and it was revealed that selected compds. of the invention possessed IC50 values in the range of 5 up to 1000 nM. I as inhibitors of human neutrophil elastase should prove useful in the treatment of chronic obstructive pulmonary diseases, acute coronary syndrome, acute myocardial infarction and heart failure development. Pharmaceutical compns. comprising I are disclosed.

IT 864250-62-4P  
RL: PAC (Pharmacological activity); PEP (Physical, engineering or chemical process); PYP (Physical process); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses)  
(preparation of diaryl-dihydropyrimidin-2-ones as human neutrophil elastase inhibitors)

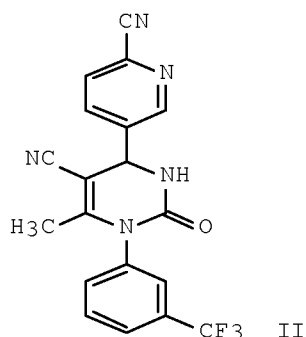
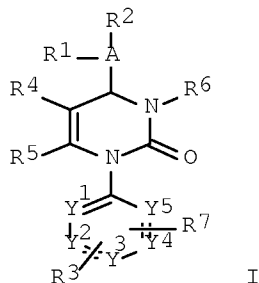
RN 864250-62-4 HCAPLUS  
CN Benzonitrile, 4-[5-(cyclopropylcarbonyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-4-pyrimidinyl]- (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L54 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 3  
ACCESSION NUMBER: 2005:979622 HCAPLUS Full-text  
DOCUMENT NUMBER: 143:286440  
TITLE: Preparation of tetrasubstituted pyrimidin-2-ones as  
human neutrophil elastase inhibitors  
INVENTOR(S): Gielen-Haertwig, Heike; Albrecht,  
Barbara; Keldenich, Joerg; Li,  
Volkhart; Pernerstorfer, Josef;  
Schlemmer, Karl-Heinz; Telan, Leila  
PATENT ASSIGNEE(S): Bayer Healthcare A.-G., Germany  
SOURCE: PCT Int. Appl., 119 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005082863	A2	20050909	WO 2005-EP1487	20050215 <--
WO 2005082863	A3	20051222		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2557272	A1	20050909	CA 2005-2557272	20050215 <--
EP 1730121	A2	20061213	EP 2005-707387	20050215 <--
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR			
JP 2007523931	T	20070823	JP 2007-500100	20050215 <--
US 20080021053	A1	20080124	US 2007-590786	20070720 <--
PRIORITY APPLN. INFO.:			EP 2004-4315	A 20040226 <--
			WO 2005-EP1487	W 20050215 <--
OTHER SOURCE(S):	MARPAT 143:286440			
ED	Entered STN: 08 Sep 2005			
GI				



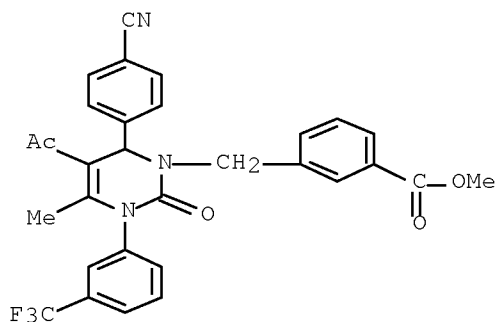
AB Title compds. I [A = heteroaryl ring; R1-3 = H, halo, NO<sub>2</sub>, etc.; R4 = CF<sub>3</sub>CO, alkylcarbonyl, etc.; R5 = alkyl, alkoxy, etc.; R6 = T-U; T = alkanediyl, akenediyl; U = aryl, heteroaryl, etc.; R7 = halo, NO<sub>2</sub>, CN, etc.; Y1-5 = independently CH, N wherein the ring contains 0-2 N atoms] and analogs are prepared For instance, II is prepared in 6 steps from 2-bromo-5-methylpyridine, allyl 3-oxobutanoate and N-[3- (trifluoromethyl)phenyl]urea. II has an IC<sub>50</sub> = 70 nM for human neutrophil elastase (HNE). I are useful for the treatment of chronic obstructive pulmonary diseases, acute coronary syndrome, acute myocardial infarction and heart failure development.

IT 864150-42-5F

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
(preparation of tetrasubstituted pyrimidin-2-ones as human neutrophil elastase inhibitors)

RN 864150-42-5 HCAPLUS

CN Benzoic acid, 3-[[5-acetyl-6-(4-cyanophenyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]methyl]-, methyl ester (CA INDEX NAME)



L54 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 4

ACCESSION NUMBER: 2004:253147 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 140:287406

TITLE: Preparation of pyrimidinones as human neutrophil elastase (HNE) inhibitors

# Serial No.:10/590,786

INVENTOR(S): Gielen, Heike; Li, Volkhart; Rosentreter,  
Ulrich; Schlemmer, Karl-heinz;  
Allerheiligen, Swen; Telan, Leila;  
Baerfacker, Lars; Keldenich, Joerg;  
Fitzgerald, Mary F.; Nash, Kevin; Albrecht,  
Barbara; Meurer, Dirk

PATENT ASSIGNEE(S): Bayer Healthcare Ag, Germany

SOURCE: PCT Int. Appl., 121 pp.  
CODEN: PIXXD2

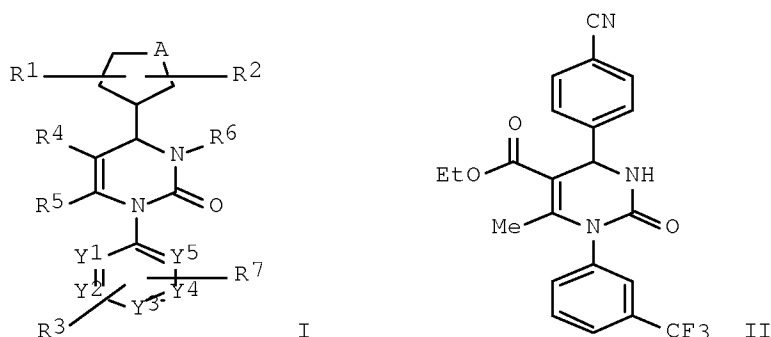
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004024700	A1	20040325	WO 2003-EP9525	20030828 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
GB 2392910	A	20040317	GB 2003-15870	20030707 <--
CA 2498051	A1	20040325	CA 2003-2498051	20030828 <--
AU 2003282006	A1	20040430	AU 2003-282006	20030828 <--
EP 1546113	A1	20050629	EP 2003-773613	20030828 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003014186	A	20050809	BR 2003-14186	20030828 <--
JP 2006507355	T	20060302	JP 2004-571738	20030828 <--
NZ 538670	A	20070126	NZ 2003-538670	20030828 <--
MX 2005PA02644	A	20050920	MX 2005-PA2644	20050309 <--
NO 2005001726	A	20050407	NO 2005-1726	20050407 <--
US 20060160801	A1	20060720	US 2005-527391	20051021 <--
PRIORITY APPLN. INFO.:			GB 2002-20962	A 20020910 <--
			GB 2002-26609	A 20021114 <--
			GB 2003-15870	A 20030707 <--
			WO 2003-EP9525	W 20030828 <--
OTHER SOURCE(S):		MARPAT 140:287406		
ED Entered STN:		28 Mar 2004		
GI				

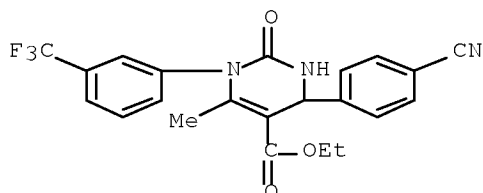


AB Title compds. I [wherein A = hetero/aryl; R1, R2, R3 = independently H, halo, NO<sub>2</sub>, CN, OH and derivs., (un)substituted alkyl, R4 = CN, trifluoromethylcarbonyl, alkenoxycarbonyl, hydroxycarbonyl, aryl/alkylaminocarbonyl, (un)substituted heteroarylcarbonyl, heterocyclylcarbonyl, heteroaryl, heterocyclyl, alkylcarbonyl, alkoxycarbonyl, mono- and dialkylaminocarbonyl; R5 = NH<sub>2</sub>, (un)substituted alkyl; R6 = H, formyl, N-(alkylsulfonyl)/N-(alkylsulfonyl)-N- (alkyl)/aminocarbonyl, heteroarylcarbonyl, heterocyclylcarbonyl, cycloalkylcarbonyl, (un)substituted alkyl, mono- and dialkylaminocarbonyl, alkylcarbonyl, alkoxycarbonyl, heteroaryl, heterocyclyl, etc.; R7 = halo, NO<sub>2</sub>, CN, OH, (un)substituted alkyl, alkoxy; Y1, Y2, Y3, Y4, Y5 = independently CH or N; and their salts, hydrates, and/or solvates, and their tautomeric forms] were prepared as human neutrophil elastase (HNE) inhibitors. For example, II was prepared, in 91% yield, by cyclocondensation of N-[3-(trifluoromethyl)phenyl]urea with 4-cyanobenzaldehyde and Et 3-oxobutanoate. In an in vitro assay, II displayed an IC<sub>50</sub> value of 8 nM for HNE inhibition. Thus, I are useful for treatment of acute and chronic inflammation, ischemic and remodelling processes, in particular chronic obstructive pulmonary diseases.

IT 671775-85-2P, Ethyl 4-(4-cyanophenyl)-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-1,2,3,4-tetrahydro-5-pyrimidinecarboxylate  
 RL: PAC (Pharmacological activity); PEP (Physical, engineering or chemical process); PYP (Physical process); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses)  
 (human neutrophil elastase inhibitor; preparation of pyrimidinones as human neutrophil elastase inhibitors)

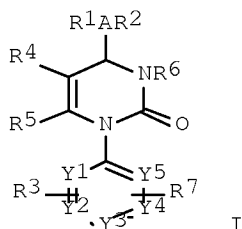
RN 671775-85-2 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, ethyl ester (CA INDEX NAME)

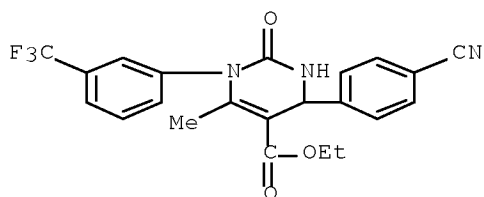


L54 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2004:213317 HCAPLUS Full-text  
 DOCUMENT NUMBER: 140:253573  
 TITLE: Preparation of 2-oxopyrimidines as human leukocyte  
 elastase (HNE) inhibitors  
 INVENTOR(S): Gielen, Heike; Li, Volkhart Min-jian;  
 Rosentreter, Ulrich; Schlemmer, Karl-heinz;  
 Allerheiligen, Swen; Telan, Leila;  
 Baerfacker, Lars; Keldenich, Joerg;  
 Albrecht, Barbara; Meurer, Dirk; Fitzgerald,  
 Mary; Nash, Kevin  
 PATENT ASSIGNEE(S): Bayer Ag, Germany  
 SOURCE: Brit. UK Pat. Appl., 117 pp.  
 CODEN: BAXXDU  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2392910	A	20040317	GB 2003-15870	20030707 <--
CA 2498051	A1	20040325	CA 2003-2498051	20030828 <--
WO 2004024700	A1	20040325	WO 2003-EP9525	20030828 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003282006	A1	20040430	AU 2003-282006	20030828 <--
EP 1546113	A1	20050629	EP 2003-773613	20030828 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003014186	A	20050809	BR 2003-14186	20030828 <--
CN 1732159	A	20060208	CN 2003-824983	20030828 <--
JP 2006507355	T	20060302	JP 2004-571738	20030828 <--
NZ 538670	A	20070126	NZ 2003-538670	20030828 <--
ZA 2005001964	A	20060531	ZA 2005-1964	20050308 <--
MX 2005PA02644	A	20050920	MX 2005-PA2644	20050309 <--
NO 2005001726	A	20050407	NO 2005-1726	20050407 <--
US 20060160801	A1	20060720	US 2005-527391	20051021 <--
PRIORITY APPLN. INFO.:			GB 2002-20962	A 20020910 <--
			GB 2002-26609	A 20021114 <--
			GB 2003-15870	A 20030707 <--
			WO 2003-EP9525	W 20030828 <--
OTHER SOURCE(S): MARPAT 140:253573				
ED Entered STN: 17 Mar 2004				
GI				



- AB Title compds. [I; A = aryl, heteroaryl; R1-R3 = H, OH, halo, NO2, cyano, (substituted) alkyl, alkoxy; R4 = F3CCO, (substituted) alkylcarbonyl, alkoxy carbonyl, alkenyloxycarbonyl, CO2H, arylcarbonyl, heteroaryl, heterocyclyl, cyano, etc.; R5 = (substituted) alkyl, amino; R6 = H, CHO, CONH2, (substituted) alkyl, alkoxy carbonyl, alkylsulfonylaminocarbonyl, heteroaryl, heterocyclyl, etc.; R7 = halo, NO2, cyano, OH, (substituted) alkyl, alkoxy; Y1-Y5 = CH, N, wherein the ring contains 0-2 N], were prepared Thus, 3-trifluoromethylphenylurea, 4-cyanobenzaldehyde, Et 3-oxobutyrate, and polyphosphoric acid Et ester were refluxed 18 h in THF to give 91% Et 4-(4-cyanophenyl)-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-1,2,3,4-tetrahydro-5-pyrimidinecarboxylate. The latter inhibited HNE with IC50 = 8 nM.
- IT 671775-85-2F  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of 2-oxypyrimidines as human leukocyte elastase inhibitors)
- RN 671775-85-2 HCAPLUS
- CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, ethyl ester (CA INDEX NAME)



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L54 ANSWER 6 OF 6 WPIX COPYRIGHT 2008 THE THOMSON CORP on STN  
 ACCESSION NUMBER: 2008-B43885 [10] WPIX  
 DOC. NO. CPI: C2008-040102 [10]  
 TITLE: Use of 1,4-diaryl-dihydropyrimidin-2-one derivative for producing a medicament for the treatment and/or prophylaxis of e.g. pulmonary arterial hypertension, chronic-obstructive lung diseases and sleep apnea syndrome

DERWENT CLASS: B03  
 INVENTOR: GIELEN-HAERTWIG H; KLEIN M; LI V;  
 LI V M; LUSTIG K; MEIBOM D; NUSSBAUM F; SANDNER  
 P; SCHAEFER S; VON NUSSBAUM F  
 PATENT ASSIGNEE: (FARB-C) BAYER HEALTHCARE AG  
 COUNTRY COUNT: 120

## PATENT INFO ABBR.:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
DE 102006031314	A1	20080103	(200810)*	DE	34[0]	
WO 2008003412	A1	20080110	(200810)	DE		

## APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
DE 102006031314	A1	DE 2006-102006031314	20060701
WO 2008003412	A1	WO 2007-EP5579	20070625

PRIORITY APPLN. INFO: DE 2006-102006031314 20060701

AB DE 102006031314 A1 UPAB: 20080208

NOVELTY - Use of 1,4-diaryl-dihydropyrimidin-2-one derivative (I) or its salts, solvates or solvates of the salts, for producing a medicament for the treatment and/or prophylaxis of pulmonary arterial hypertension.

DETAILED DESCRIPTION - Use of 1,4-diaryl-dihydropyrimidin-2-one derivative of formula (I) or its salts, solvates or solvates of the salts, for producing a medicament for the treatment and/or prophylaxis of the pulmonary arterial hypertension.

R1 = H, -(CH<sub>2</sub>)<sub>n</sub>C(=O)-O-R5 or benzoic acid of formula (a) or (b);

R5 = H or 1-4C-alkyl;

R2 = CN or -C(=O)-R6 or -C(=O)-O-R6;

R6 = 1-6C-alkyl or 3-6C-cycloalkyl (which is partially or substituted two times with hydroxy, 1-4C-alkoxy, hydroxycarbonyl, amino, mono- and/or di-1-4C-alkylamino, where respectively, CH<sub>2</sub> is replaced with an O-atom);

R3, R4 = H, F or Cl;

X = CH or N; and

asterisk = connecting place with the N-atom.

INDEPENDENT CLAIMS are included for:

(1) a combination comprising (I) and an active substance from kinase-inhibitor, stimulator and activator of the soluble guanylate cyclase, prostacyclin-analogues, endothelium receptor-antagonist and phosphodiesterase-inhibitors;

(2) a medicament comprising the combination; and

(3) method for the treatment and/or prophylaxis of the pulmonary arterial hypertension with humans and animals by administering (I), the combination or the medicament in combination with inert, non-toxic auxiliary materials.

ACTIVITY - Hypotensive; Respiratory-Gen; Vulnerary; Respiratory-gen.; CNS-Gen; Thrombolytic; Antiinflammatory.

MECHANISM OF ACTION - Neutrophile elastase inhibitor. The neutrophile elastase inhibitory activity of (I) was tested using human neutrophile elastase. The result showed that (I) exhibited a median inhibitory concentration (IC<sub>50</sub>) of 14.8 nM.

USE - (I) is useful as medicament for the treatment and/or prophylaxis of the pulmonary arterial hypertension with left arterial or left ventricle diseases, left-sided valvular defect, chronic-obstructive lung diseases, interstitial lung diseases, sleep apnea syndrome, diseases with alveolar hypoventilation, Acosta's disease, development of pulmonary disorders, chronic

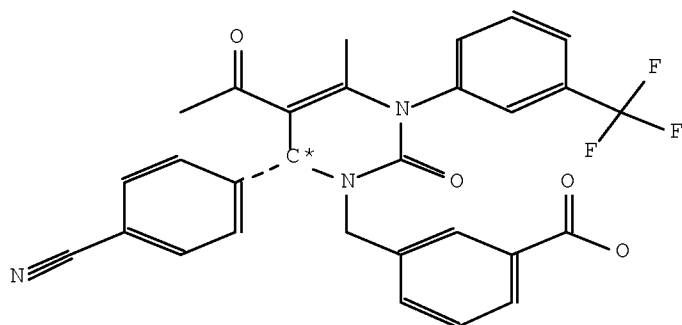
thrombotic and/or embolic diseases, together with sarcoidosis, histiocytosis X or lymphangioliomyomatosis, pulmonary arterial hypertension, which is caused from outside by vascular compression (claimed).

ADVANTAGE - (I) is low-molecular, non-reactive, selective and potent inhibitors of neutrophil elastase and shows high bioavailability after oral administration and/or good solubility for the parenteral application.

AN.S DCR-1556396

CN.S 3-[(R)-5-Acetyl-6-(4-cyano-phenyl)-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-3,6-dihydro-2H-pyrimidin-1-ylmethyl]-benzoic acid

SDCN RAS1SU



AN.S DCR-1332800

CN.S (R)-4-(4-Cyano-phenyl)-6-methyl-2-oxo-1-(3-trifluoromethyl-phenyl)-1,2,3,4-tetrahydro-pyrimidine-5-carboxylic acid 2-hydroxy-ethyl ester

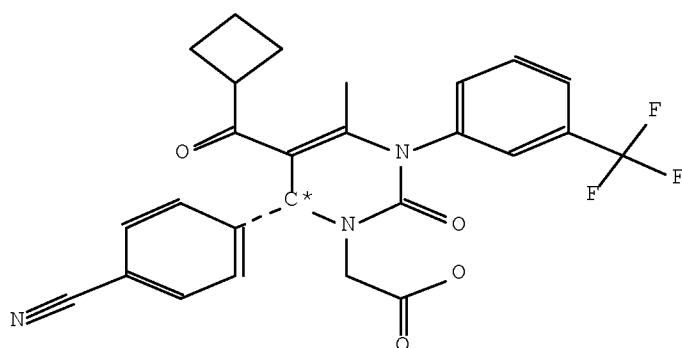
SDCN RANA4W

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AN.S DCR-1556397

CN.S [(R)-6-(4-Cyano-phenyl)-5-cyclobutanecarbonyl-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-3,6-dihydro-2H-pyrimidin-1-yl]-acetic acid

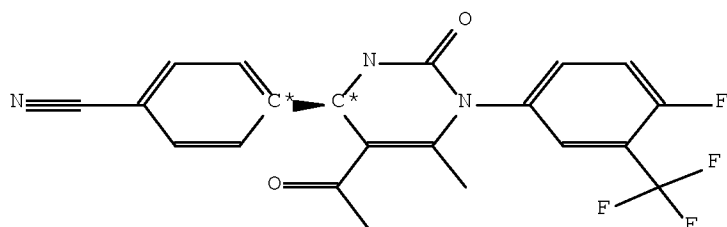
SDCN RAS1SV



AN.S DCR-1556399

CN.S 4-[ (R)-5-Acetyl-1-(4-fluoro-3-trifluoromethyl-phenyl)-6-methyl-2-oxo-  
1,2,3,4-tetrahydro-pyrimidin-4-yl]-benzonitrile

SDCN RAS1SX



Serial No.:10/590,786  
Structure Search

=> FILE HCAPLUS  
FILE 'HCAPLUS' ENTERED AT 12:19:55 ON 15 APR 2008  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 15 Apr 2008 VOL 148 ISS 16  
FILE LAST UPDATED: 14 Apr 2008 (20080414/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.  
'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

=> D QUE L43  
L38 STR

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation.

L40 768 SEA FILE=REGISTRY SSS FUL L38  
L42 20 SEA FILE=HCAPLUS ABB=ON PLU=ON L40  
L43 15 SEA FILE=HCAPLUS ABB=ON PLU=ON L42 AND (PRY<=2005 OR  
AY<=2005 OR PY<=2005)

=> S L43 NOT L44  
L55 10 L43 NOT L44

=> FILE WPIX  
FILE 'WPIX' ENTERED AT 12:20:16 ON 15 APR 2008  
COPYRIGHT (C) 2008 THE THOMSON CORPORATION

FILE LAST UPDATED: 12 APR 2008 <20080412/UP>  
MOST RECENT THOMSON SCIENTIFIC UPDATE: 200824 <200824/DW>  
DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

>>> IPC Reform backfile reclassification has been loaded to the end of November 2007. No update date (UP) has been created for the reclassified documents, but they can be identified by 20060101/UPIC and 20061231/UPIC, 20070601/UPIC, 20071001/UPIC and 20071130/UPIC. <<<

FOR A COPY OF THE DERWENT WORLD PATENTS INDEX STN USER GUIDE,  
PLEASE VISIT:

[http://www.stn-international.de/training\\_center/patents/stn\\_guide.pdf](http://www.stn-international.de/training_center/patents/stn_guide.pdf)

FOR DETAILS OF THE PATENTS COVERED IN CURRENT UPDATES, SEE

<http://scientific.thomson.com/support/patents/coverage/latestupdates/>

EXPLORE DERWENT WORLD PATENTS INDEX IN STN ANAVIST, VERSION 2.0:

[http://www.stn-international.com/archive/presentations/DWPIAnaVist2\\_0710.pdf](http://www.stn-international.com/archive/presentations/DWPIAnaVist2_0710.pdf)

>>> XML document distribution format now available - See HELP XMLDOC <<<

>>> ECLA Codes and Current US National Classifications have been added -  
see NEWS and HELP CHANGE <<<

>>> HELP for European Patent Classifications see HELP ECLA, HELP ICO <<<

>>> Updated PDF files in the following links:

[http://www.stn-international.de/stndatabases/details/ico\\_0803.zip](http://www.stn-international.de/stndatabases/details/ico_0803.zip)

[http://www.stn-international.de/stndatabases/details/epc\\_0803.zip](http://www.stn-international.de/stndatabases/details/epc_0803.zip)

Supplement of all changed ECLA items:

[http://www.stn-international.de/stndatabases/details/ecla\\_0803s.zip](http://www.stn-international.de/stndatabases/details/ecla_0803s.zip) <<<

'BI,ABEX' IS DEFAULT SEARCH FIELD FOR 'WPIX' FILE

=> D QUE L47

L38 STR

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation.

L46 117 SEA FILE=WPIX SSS FUL L38

L47 7 SEA FILE=WPIX ABB=ON PLU=ON L46/DCR

=> S L47 NOT L48

L56 2 L47 NOT L48

=> FILE BEILSTEIN

FILE 'BEILSTEIN' ENTERED AT 12:20:36 ON 15 APR 2008

COPYRIGHT (c) 2008 Beilstein-Institut zur Foerderung der Chemischen Wissenschaften  
licensed to Beilstein GmbH and MDL Information Systems GmbH

FILE LAST UPDATED ON April 1, 2008

FILE COVERS 1771 TO 2008.

\*\*\* FILE CONTAINS 10.322,808 SUBSTANCES \*\*\*

>>>PLEASE NOTE: Reaction Data and substance data are stored in  
separate documents and can not be searched together in one query.  
Reaction data for BEILSTEIN compounds may be displayed  
immediately with the display codes PRE (preparations) and REA  
(reactions). A substance answer set retrieved after the search  
for a chemical name, a compounds with available reaction  
information by combining with PRE/FA, REA/FA or more generally  
with RX/FA. The BEILSTEIN Registry Number (BRN) is the link  
between a BEILSTEIN compound and belonging reactions. For mo  
detailed reaction searches BRNs can be searched as reaction  
partner BRNs Reactant BRN (RX.RBRN) or Product BRN (RX.PBRN).<<<

>>> FOR SEARCHING PREPARATIONS SEE HELP PRE <<<

\*\*\*\*\*

\* PLEASE NOTE THAT THERE ARE NO FORMATS FREE OF COST. \*

\* SET NOTICE FEATURE: THE COST ESTIMATES CALCULATED FOR SET NOTICE \*

\* ARE BASED ON THE HIGHEST PRICE CATEGORY. THEREFORE; THESE \*

\* ESTIMATES MAY NOT REFLECT THE ACTUAL COSTS. \*

\* FOR PRICE INFORMATION SEE HELP COST \*

\*\*\*\*\*

>>> Price change as of January 1st, 2008: Connect Time and Structure  
Search fees re-introduced. See NEWS and HELP COST <<<

=> D QUE L53

L38 STR

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation.

L50 23 SEA FILE=BEILSTEIN SSS FUL L38

L51 20 SEA FILE=BEILSTEIN ABB=ON PLU=ON L50 AND BABSAN/FA

L53 3 SEA FILE=BEILSTEIN ABB=ON PLU=ON L50 NOT L51

=> FILE BABS

FILE 'BABS' ENTERED AT 12:20:45 ON 15 APR 2008

COPYRIGHT (c) 2008 Beilstein-Institut zur Foerderung der Chemischen Wissenschaften  
licensed to Beilstein GmbH and MDL Information Systems GmbH

FILE LAST UPDATED: 17 MAR 2008 <20080317/UP>

FILE COVERS 1980 TO DATE.

=> D QUE L52

L52 6 SEA FILE=BABS ABB=ON PLU=ON (6615225/BABSAN OR 6322274/BABSAN  
OR 6679519/BABSAN OR 5898555/BABSAN OR 5545785/BABSAN OR  
6058956/BABSAN)

=> DUP REM L55 L56 L53 L52

DUPLICATE IS NOT AVAILABLE IN 'BEILSTEIN'.

ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE

FILE 'HCAPLUS' ENTERED AT 12:21:04 ON 15 APR 2008

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'WPIX' ENTERED AT 12:21:04 ON 15 APR 2008

COPYRIGHT (C) 2008 THE THOMSON CORPORATION

FILE 'BEILSTEIN' ENTERED AT 12:21:04 ON 15 APR 2008

COPYRIGHT (c) 2008 Beilstein-Institut zur Foerderung der Chemischen Wissenschaften  
licensed to Beilstein GmbH and MDL Information Systems GmbH

FILE 'BABS' ENTERED AT 12:21:04 ON 15 APR 2008

COPYRIGHT (c) 2008 Beilstein-Institut zur Foerderung der Chemischen Wissenschaften  
licensed to Beilstein GmbH and MDL Information Systems GmbH

PROCESSING COMPLETED FOR L55

PROCESSING COMPLETED FOR L56

PROCESSING COMPLETED FOR L53

PROCESSING COMPLETED FOR L52

L57 15 DUP REM L55 L56 L53 L52 (6 DUPLICATES REMOVED)

ANSWERS '1-10' FROM FILE HCAPLUS

ANSWERS '11-13' FROM FILE BEILSTEIN

## Serial No.:10/590,786

ANSWERS '14-15' FROM FILE BABS

=&gt; D IBIB ED ABS HITSTR L57 1-10; D IDE ALLREF 11-13 L57; D ALL 14-15 L57

L57 ANSWER 1 OF 15 HCAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 1  
 ACCESSION NUMBER: 2006:1356757 HCAPLUS Full-text  
 DOCUMENT NUMBER: 146:100714  
 TITLE: Preparation of dihydropyrimidone multimers as human  
 neutrophil elastase inhibitors  
 INVENTOR(S): Finch, Harry; Edwards, Christine; Ray, Nicholas  
 Charles; Fitzgerald, Mary Frances  
 PATENT ASSIGNEE(S): Argenta Discovery Ltd., UK  
 SOURCE: PCT Int. Appl., 59pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006136857	A1	20061228	WO 2006-GB2337	20060626 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
EP 1893584	A1	20080305	EP 2006-755623	20060626 <--
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
PRIORITY APPLN. INFO.:			GB 2005-12940	A 20050624 <--
			WO 2006-GB2337	W 20060626
OTHER SOURCE(S): MARPAT 146:100714				
ED Entered STN: 29 Dec 2006				
GI				

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Title compds. represented by the formula M-L-M, wherein L is a linker and each M is independently a group of formula I [A = (hetero)aryl; D = O or S; R1-R3 = independently H, halo, nitro, etc.; R4 = OH, alkyl(carbonyl), amino, etc.; Y1-Y5 = independently C or N, with the proviso that the ring in which they are comprised contains no more than 2 N atoms; R5 = (un)substituted alkyl, -O-alkyl-O-alkyl or amino; R6 = halo, nitro, cyano, etc.; and pharmaceutically acceptable salts, solvates or N-oxides thereof], were prepared as human neutrophil elastase (HNE) inhibitors. For example, II was provided in a multi-step synthesis starting from the reaction of 3-(trifluoromethyl)phenylurea with 4-cyanobenzaldehyde. I were tested for inhibitory activity towards HNE with IC50 values of 1-1000 nM. Thus, I and

Serial No.:10/590,786

their pharmaceutical compns. are useful as human neutrophil elastase inhibitors for the treatment of respiratory diseases (no data).

IT 917813-88-8P 917813-90-2P 917813-97-9P  
917813-98-0P 917813-99-1P 917814-01-8P  
917814-02-9P 917814-13-2P 917814-15-4P  
917814-17-6P

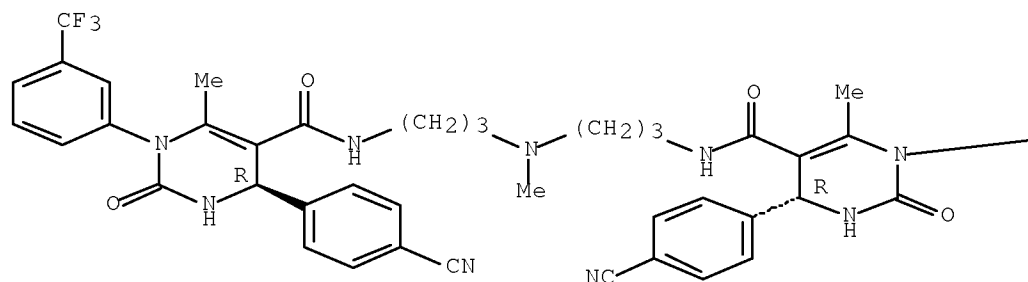
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
(preparation of dihydropyrimidine multimers as human neutrophil elastase inhibitors)

RN 917813-88-8 HCAPLUS

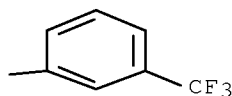
CN 5-Pyrimidinecarboxamide, N,N'-[(methylimino)di-3,1-propanediyl]bis[4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, (4R,4'R)- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



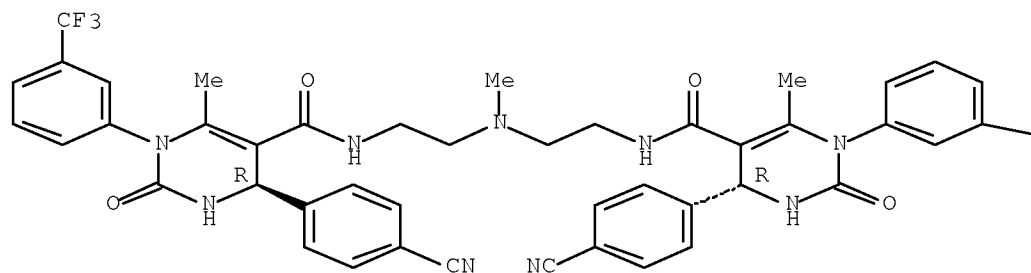
PAGE 1-B



RN 917813-90-2 HCAPLUS

CN 5-Pyrimidinecarboxamide, N,N'-[(methylimino)di-2,1-ethanediyl]bis[4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, (4R,4'R)- (CA INDEX NAME)

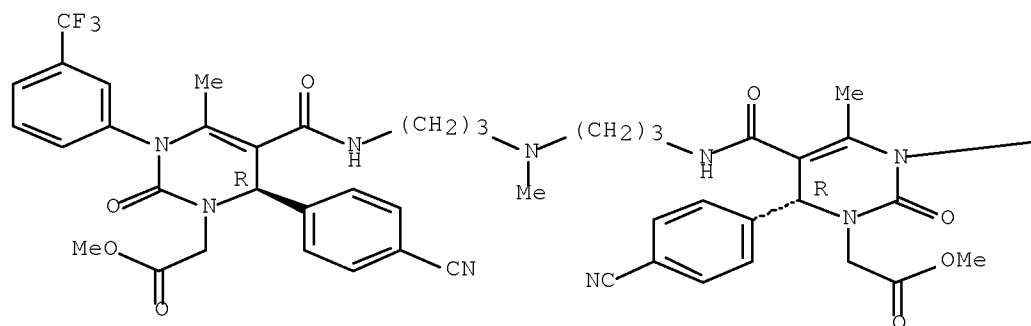
Absolute stereochemistry.

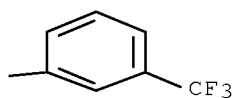


RN 917813-97-9 HCAPLUS

CN 1(2H)-Pyrimidineacetic acid, 5,5'-[(methylimino)bis(3,1-propanediyliminocarbonyl)]bis[6-(4-cyanophenyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, 1,1'-dimethyl ester, (6R,6'R)- (CA INDEX NAME)

Absolute stereochemistry.



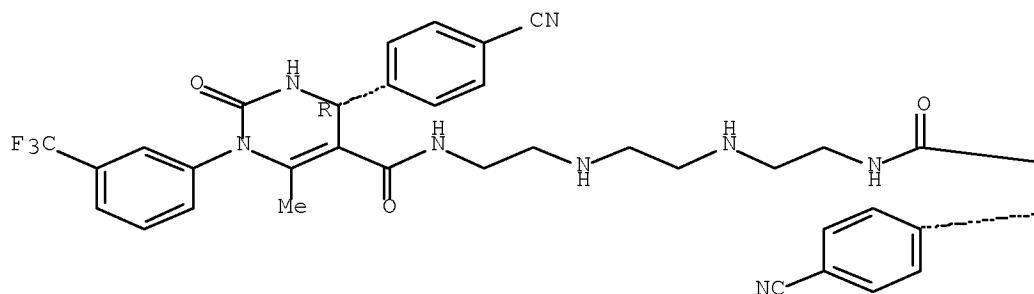


RN 917813-98-0 HCAPLUS

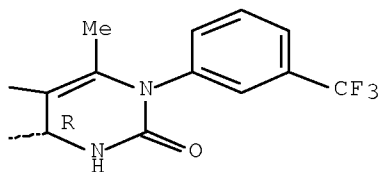
CN 5-Pyrimidinecarboxamide, N,N'-[1,2-ethanediylbis(imino-2,1-ethanediyl)]bis[4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, (4R,4'R)- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



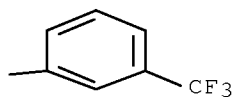
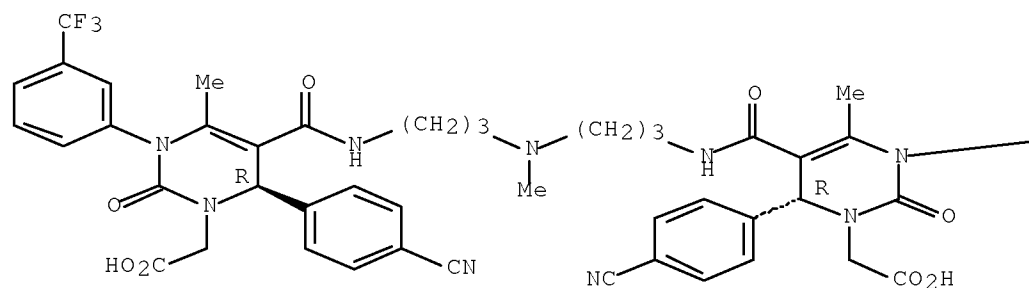
PAGE 1-B



RN 917813-99-1 HCAPLUS

CN 1(2H)-Pyrimidineacetic acid, 5,5'-[(methylimino)bis(3,1-propanediyliminocarbonyl)]bis[6-(4-cyanophenyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, (6R,6'R)- (CA INDEX NAME)

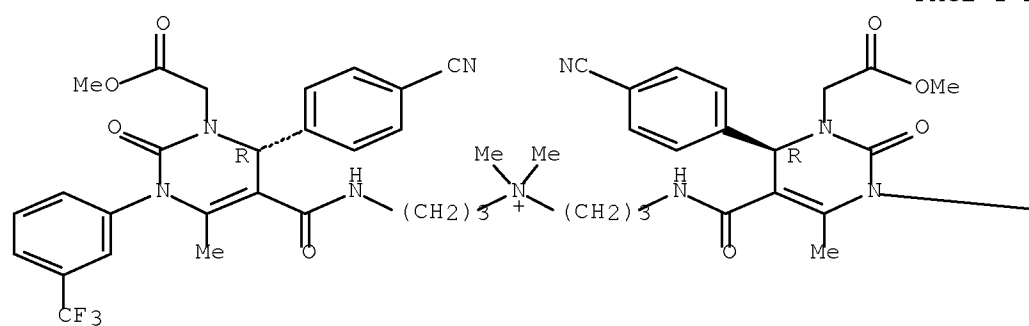
Absolute stereochemistry.

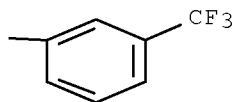


RN 917814-01-8 HCAPLUS

CN 1-Propanaminium, 3-[[[(4R)-4-(4-cyanophenyl)-1,2,3,4-tetrahydro-3-(2-methoxy-2-oxoethyl)-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-5-pyrimidinyl]carbonyl]amino]-N-[3-[[[(4R)-4-(4-cyanophenyl)-1,2,3,4-tetrahydro-3-(2-methoxy-2-oxoethyl)-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-5-pyrimidinyl]carbonyl]amino]propyl]-N,N-dimethyl-, iodide (1:1) (CA INDEX NAME)

Absolute stereochemistry.

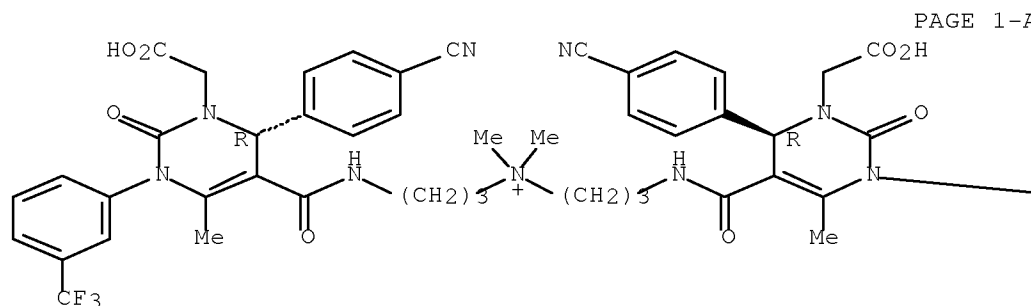




RN 917814-02-9 HCAPLUS

CN 1-Propanaminium, 3-[[[(4R)-3-(carboxymethyl)-4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-5-pyrimidinyl]carbonyl]amino]-N-[3-[[[(4R)-3-(carboxymethyl)-4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-5-pyrimidinyl]carbonyl]amino]propyl]-N,N-dimethyl-, chloride (1:1) (CA INDEX NAME)

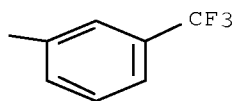
Absolute stereochemistry.



PAGE 1-A

● Cl<sup>-</sup>

PAGE 1-B



RN 917814-13-2 HCAPLUS

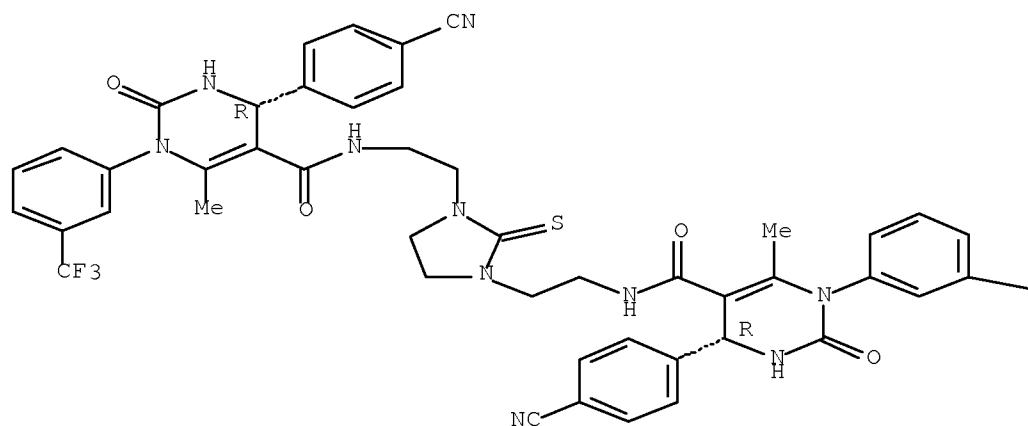
CN 5-Pyrimidinecarboxamide, N,N'-[(2-thioxo-1,3-imidazolidinediyl)di-2,1-

Serial No.:10/590,786

ethanediyl]bis[4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, (4R,4'R)- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

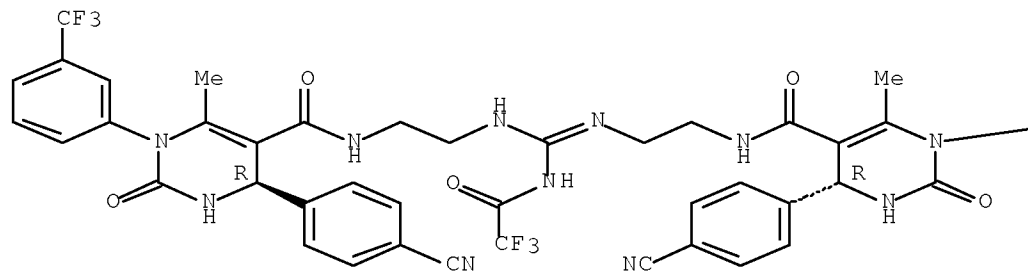
—CF<sub>3</sub>

RN 917814-15-4 HCAPLUS

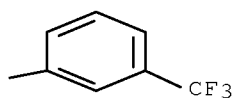
CN 5-Pyrimidinecarboxamide, N,N'-[[[(2,2,2-trifluoroacetyl)carbonimidoyl]bis(imino-2,1-ethanediyl)]bis[4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, (4R,4'R)- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

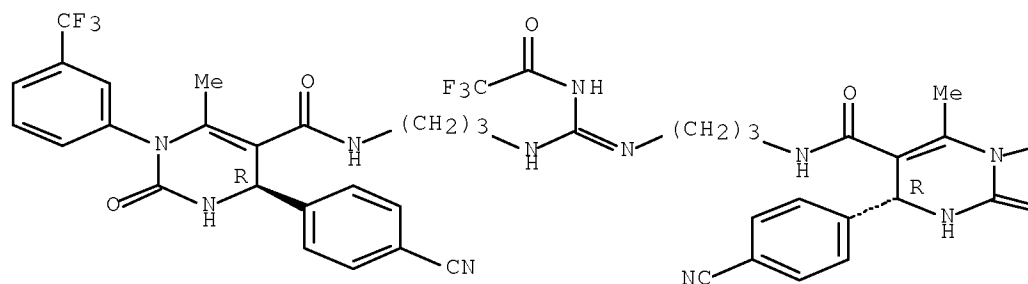


RN 917814-17-6 HCAPLUS

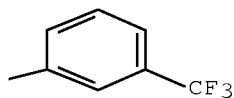
CN 5-Pyrimidinecarboxamide, N,N'-[[[(2,2,2-trifluoroacetyl)carbonimidoyl]bis(imino-3,1-propanediyl)]bis[4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, (4R,4'R)- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



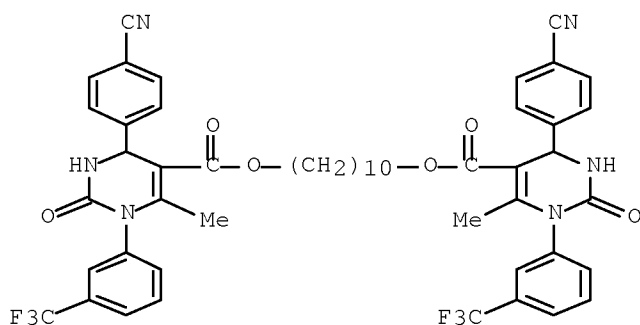
IT 917813-84-4P 917813-85-5P 917813-86-6P  
 917813-87-7P 917813-89-9P 917813-91-3P  
 917813-92-4P 917813-93-5P 917813-94-6P  
 917813-95-7P 917813-96-8P 917814-00-7P  
 917814-03-0P 917814-04-1P 917814-05-2P  
 917814-06-3P 917814-07-4P 917814-08-5P  
 917814-09-6P 917814-10-9P 917814-11-0P  
 917814-12-1P 917814-14-3P 917814-16-5P  
 917814-18-7P 917814-19-8P 917814-20-1P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU  
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES  
 (Uses)

(preparation of dihydropyrimidone multimers as human neutrophil elastase  
 inhibitors)

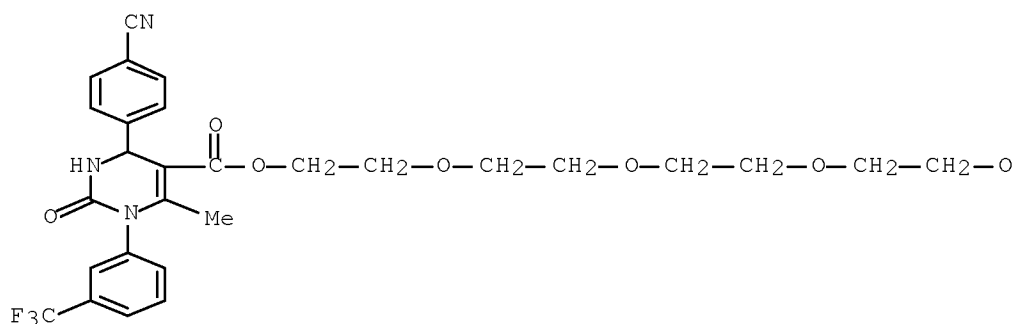
RN 917813-84-4 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-  
 2-oxo-1-[3-(trifluoromethyl)phenyl]-, 5,5'-(1,10-decanediyl) ester (CA  
 INDEX NAME)



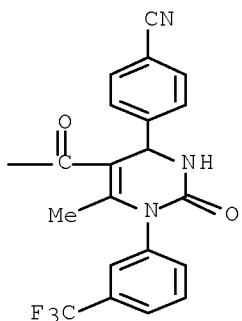
RN 917813-85-5 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-  
 2-oxo-1-[3-(trifluoromethyl)phenyl]-, 5,5'-[oxybis(2,1-ethanedioxy-2,1-  
 ethanedioxy)] ester (CA INDEX NAME)



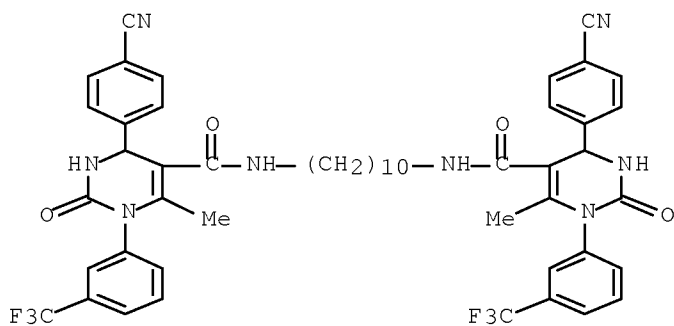
PAGE 1-A

PAGE 1-B



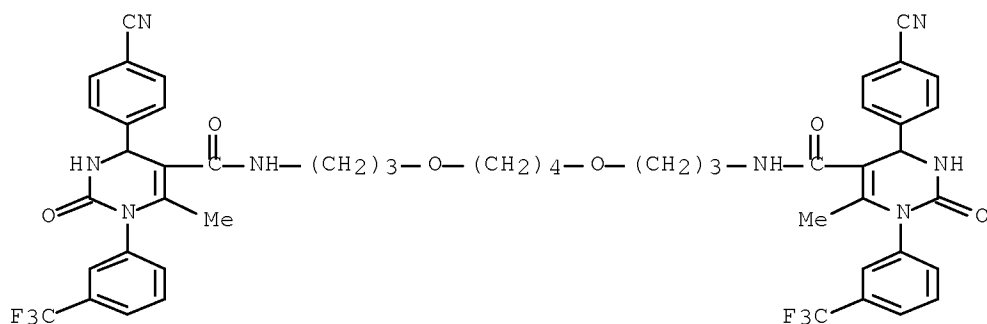
RN 917813-86-6 HCAPLUS

CN 5-Pyrimidinecarboxamide, N,N'-1,10-decanediylbis[4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



RN 917813-87-7 HCAPLUS

CN 5-Pyrimidinecarboxamide, N,N'-[1,4-butanediylbis(oxy-3,1-propanediyl)]bis[4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)

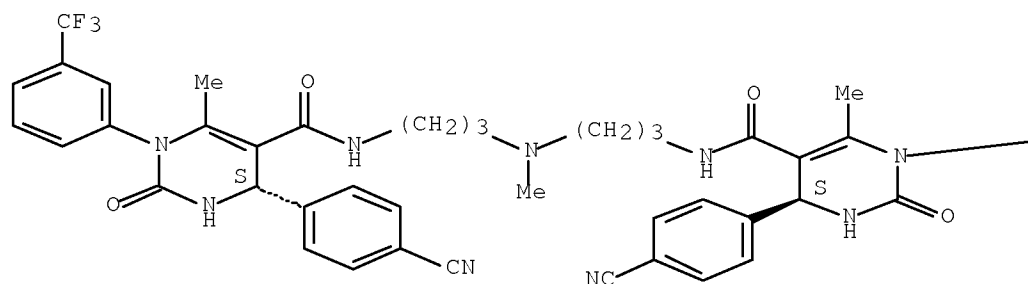


RN 917813-89-9 HCAPLUS

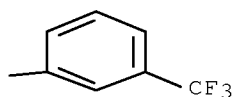
CN 5-Pyrimidinecarboxamide, N,N'-[(methylimino)di-3,1-propanediyl]bis[4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, (4S,4'S)- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

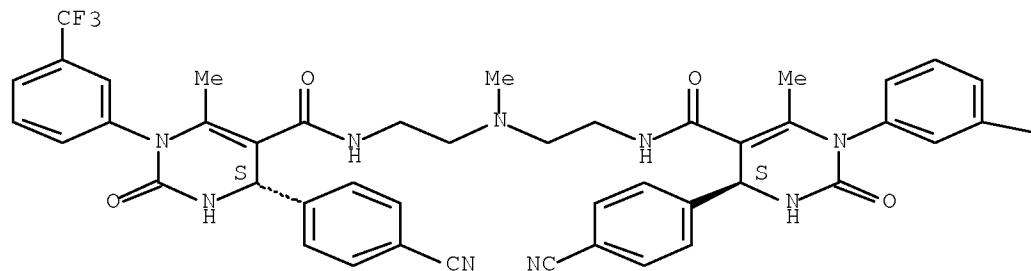


RN 917813-91-3 HCAPLUS

CN 5-Pyrimidinecarboxamide, N,N'-[(methylimino)di-2,1-ethanediyl]bis[4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, (4S,4'S)- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

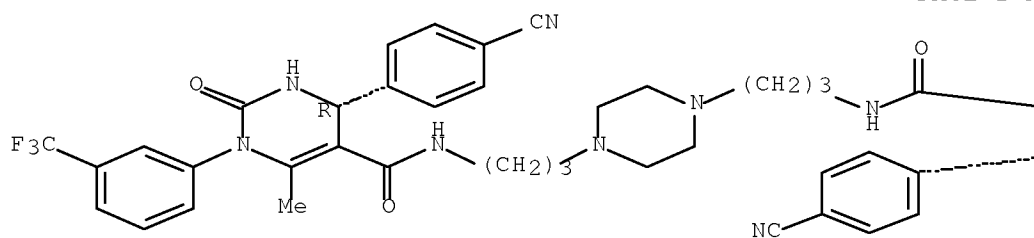


RN 917813-92-4 HCAPLUS

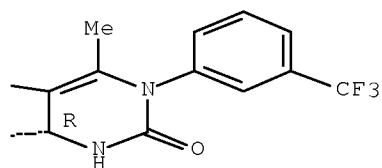
CN 5-Pyrimidinecarboxamide, N,N'-(1,4-piperazinediyl-di-3,1-propanediyl)bis[4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, (4R,4'R)- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



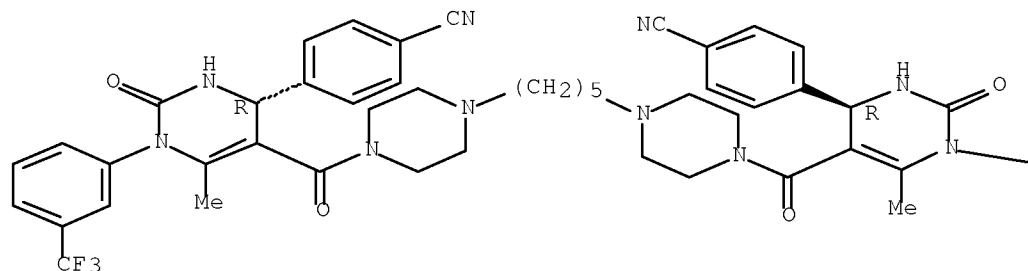
RN 917813-93-5 HCAPLUS

Serial No.:10/590,786

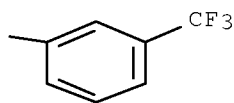
CN 5-Pyrimidinecarboxamide, N,N'-(1,5-pentanediyldi-4,1-piperazinediyl)bis[4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, (4R,4'R)- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

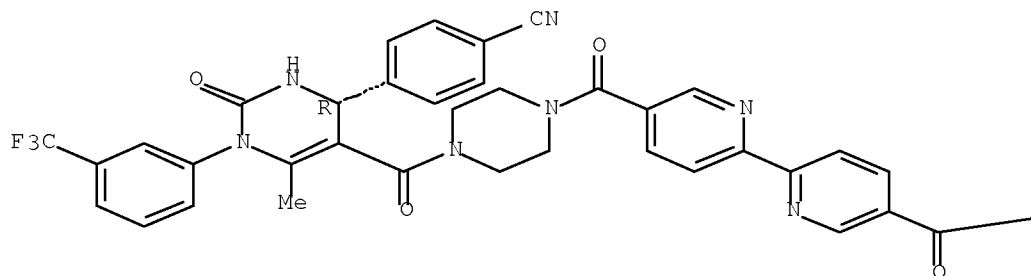


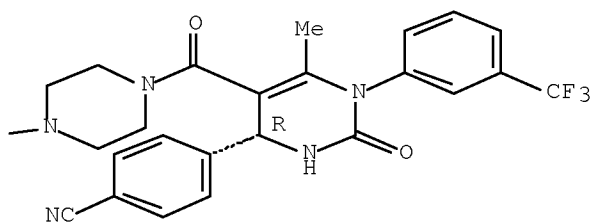
RN 917813-94-6 HCAPLUS

CN Benzonitrile, 4,4'-[[2,2'-bipyridine]-5,5'-diylbis[carbonyl-4,1-piperazinediylcarbonyl[(4R)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-5,4-pyrimidinediyl]]]bis- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

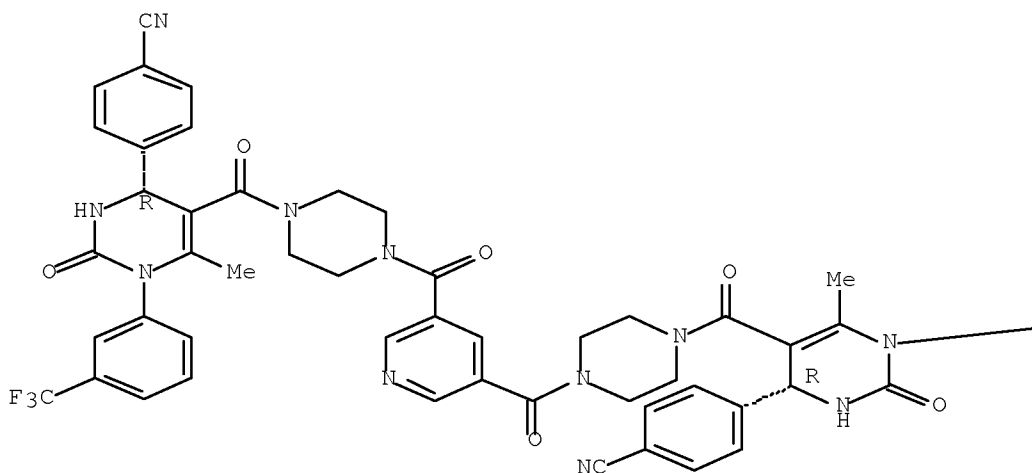


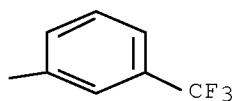


RN 917813-95-7 HCAPLUS

CN Benzonitrile, 4,4'-[3,5-pyridinediylbis[carbonyl-4,1-piperazinediylcarbonyl[(4R)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-5,4-pyrimidinediyl]]]bis- (CA INDEX NAME)

Absolute stereochemistry.

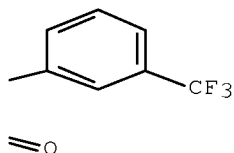
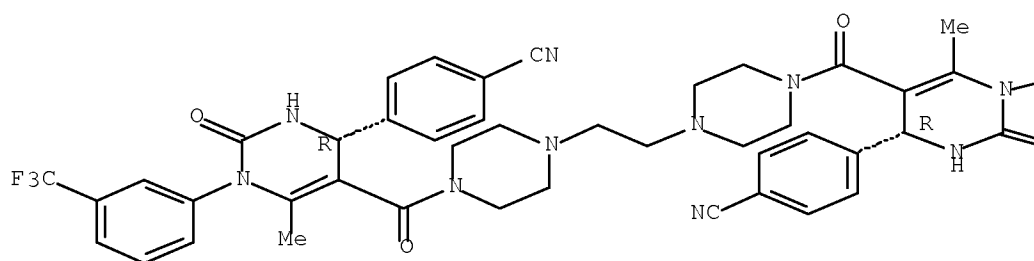




RN 917813-96-8 HCAPLUS

CN Benzonitrile, 4,4'-[1,2-ethanediylbis[4,1-piperazinediylcarbonyl[(4R)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-5,4-pyrimidinediyl]]]bis- (CA INDEX NAME)

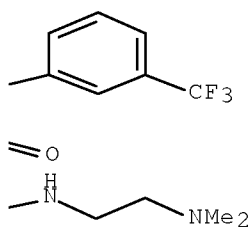
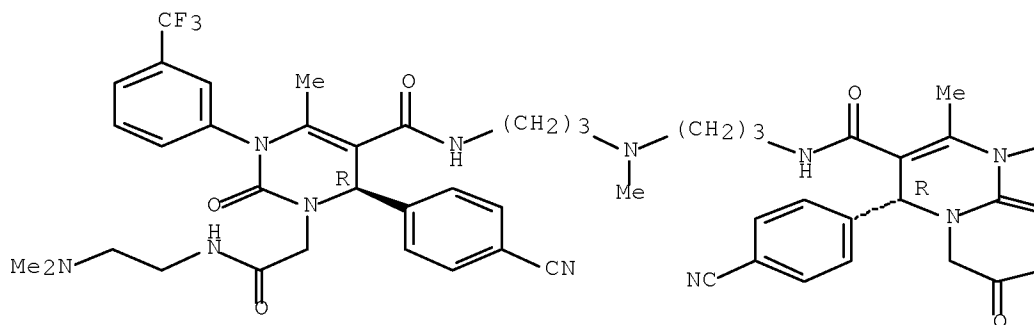
Absolute stereochemistry.



RN 917814-00-7 HCAPLUS

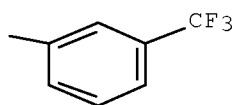
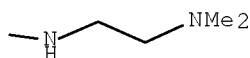
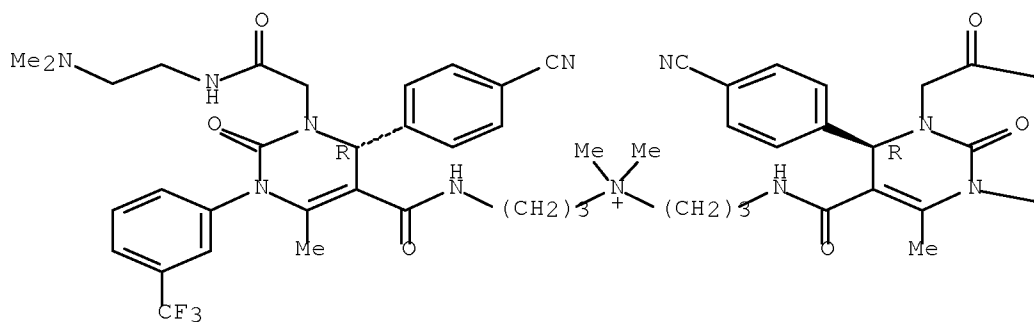
CN 1(2H)-Pyrimidineacetamide, 5,5'-[(methylimino)bis(3,1-propanediyliminocarbonyl)]bis[6-(4-cyanophenyl)-N-[2-(dimethylamino)ethyl]-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, (6R,6'R)- (CA INDEX NAME)

Absolute stereochemistry.



RN 917814-03-0 HCAPLUS  
 CN 1-Propanaminium, 3-[[[(4R)-4-(4-cyanophenyl)-3-[2-[[2-(dimethylamino)ethyl]amino]-2-oxoethyl]-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-5-pyrimidinyl]carbonyl]amino]-N-[3-[[[(4R)-4-(4-cyanophenyl)-3-[2-[[2-(dimethylamino)ethyl]amino]-2-oxoethyl]-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-5-pyrimidinyl]carbonyl]amino]propyl]-N,N-dimethyl-, chloride (1:1) (CA INDEX NAME)

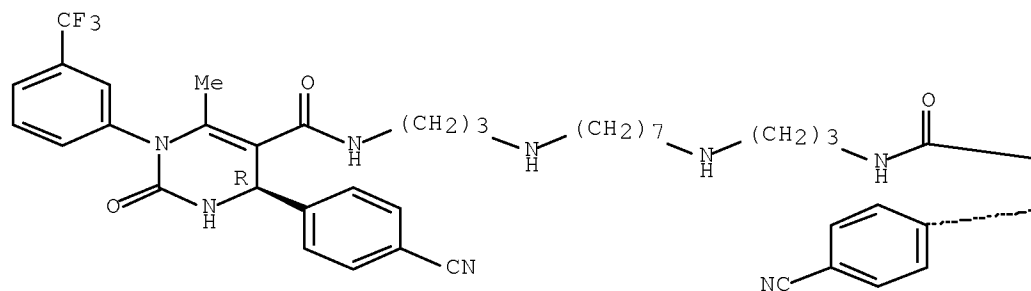
Absolute stereochemistry.



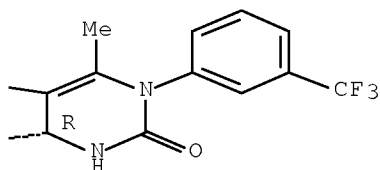
RN 917814-04-1 HCAPLUS

CN 5-Pyrimidinecarboxamide, N,N'-[1,7-heptanediyldis(imino-3,1-propanediyl)]bis[4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, (4R,4'R)- (CA INDEX NAME)

Absolute stereochemistry.



PAGE 1-B

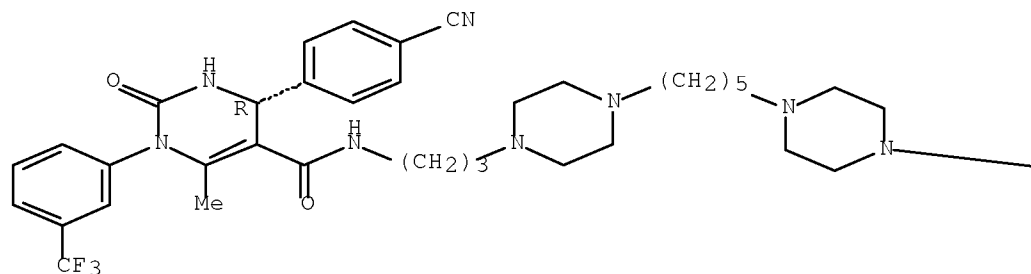


RN 917814-05-2 HCAPLUS

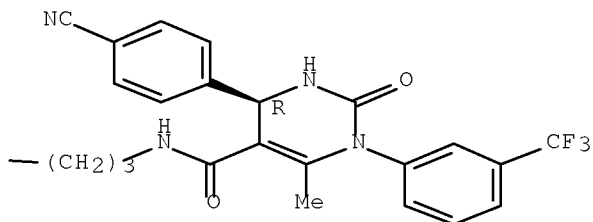
CN 5-Pyrimidinecarboxamide, N,N'-[1,5-pentanediy]bis(4,1-piperazinediy-3,1-propanediy)]bis[4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, (4R,4'R)- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

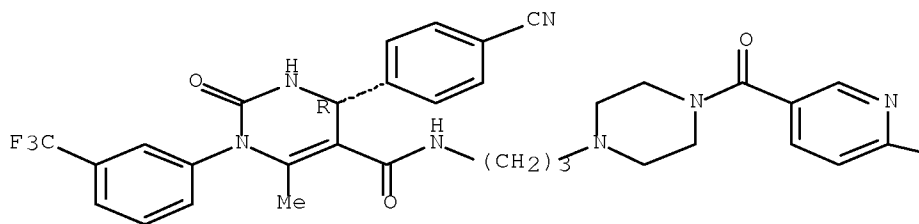


RN 917814-06-3 HCAPLUS

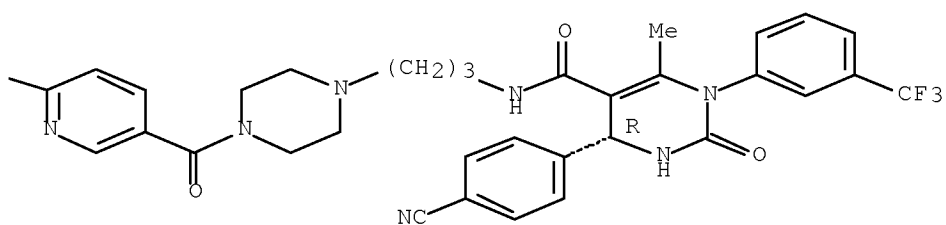
CN 5-Pyrimidinecarboxamide, N,N'-[[2,2'-bipyridine]-5,5'-diylbis(carbonyl-4,1-piperazinediy-3,1-propanediy)]bis[4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, (4R,4'R)- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

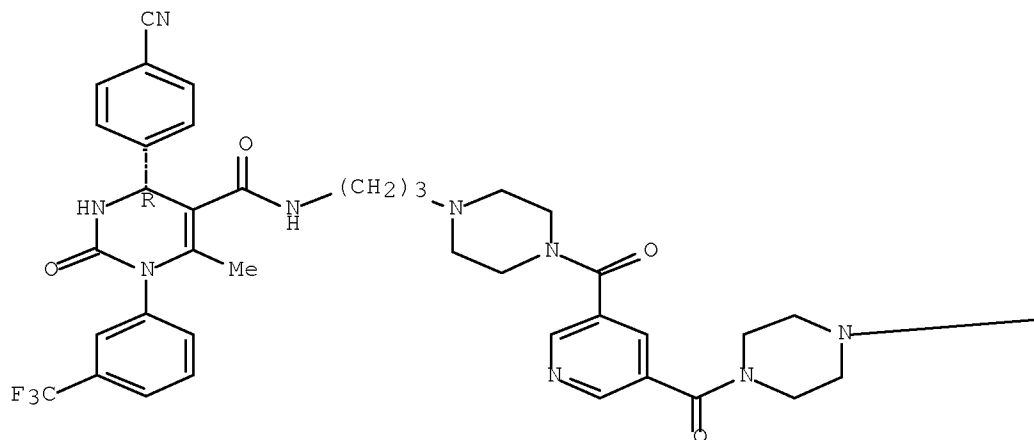


RN 917814-07-4 HCAPLUS

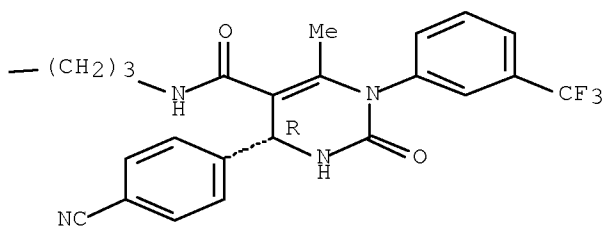
CN 5-Pyrimidinecarboxamide, N,N'-[3,5-pyridinediylbis(carbonyl-4,1-piperazinediyl-3,1-propanediyl)]bis[4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, (4R,4'R)- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

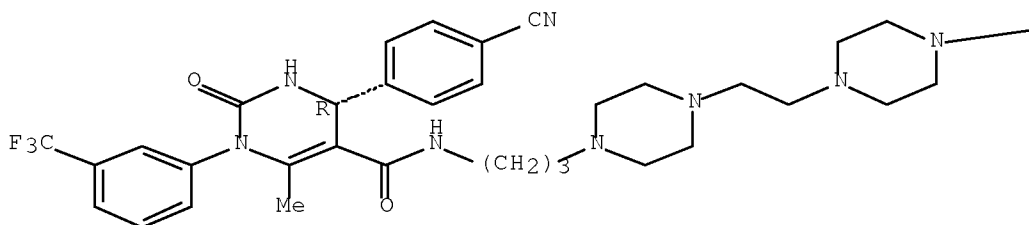


RN 917814-08-5 HCAPLUS

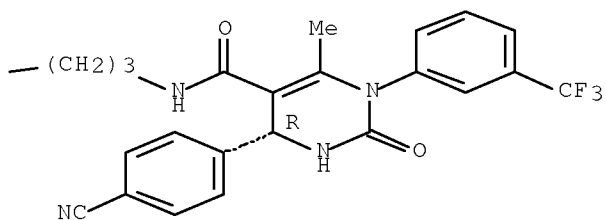
CN 5-Pyrimidinecarboxamide, N,N'-[1,2-ethanediylbis(4,1-piperazinediyl-3,1-propanediyl)]bis[4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, (4R,4'R)- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

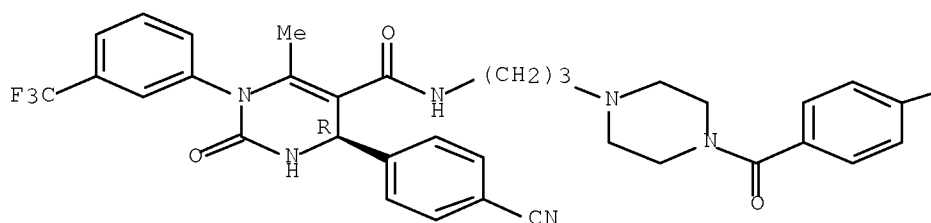


RN 917814-09-6 HCAPLUS

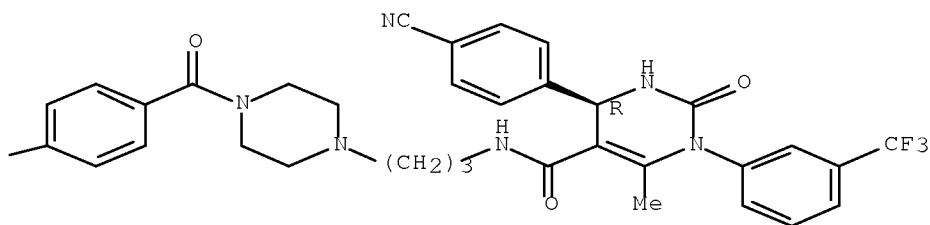
CN 5-Pyrimidinecarboxamide, N,N'-[[1,1'-biphenyl]-4,4'-diylbis(carbonyl-4,1-piperazinediyl-3,1-propanediyl)]bis[4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, (4R,4'R)- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

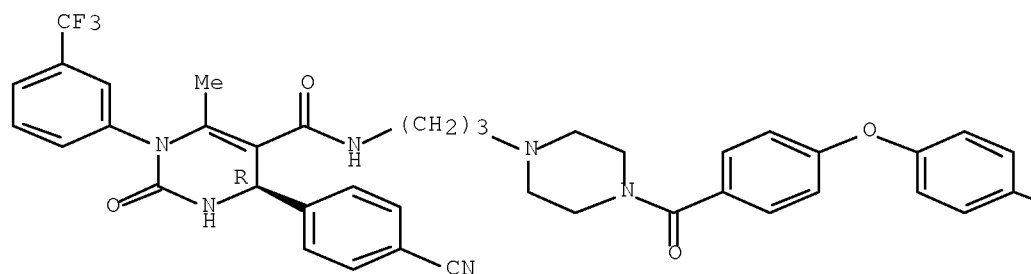


RN 917814-10-9 HCAPLUS

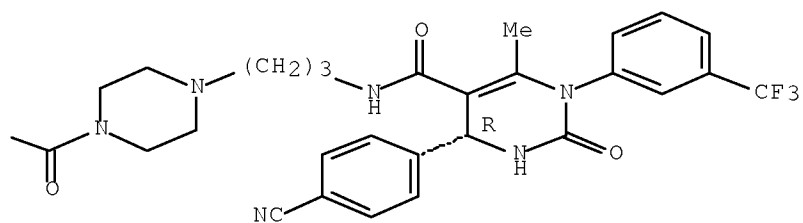
CN 5-Pyrimidinecarboxamide, N,N'-[oxybis(4,1-phenylenecarbonyl-4,1-piperazinediyl-3,1-propanediyl)]bis[4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, (4R,4'R)- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

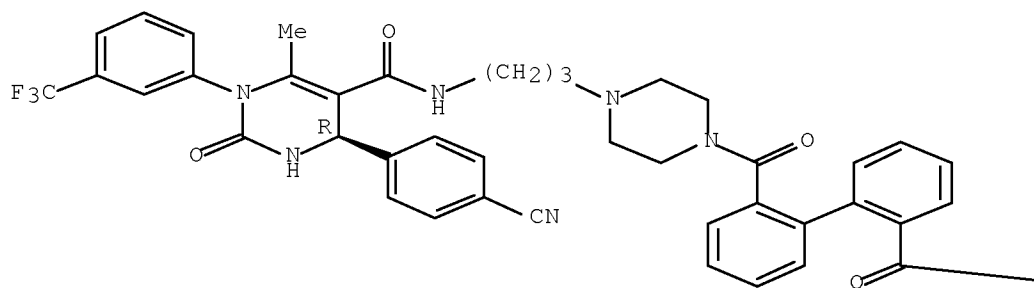


RN 917814-11-0 HCAPLUS

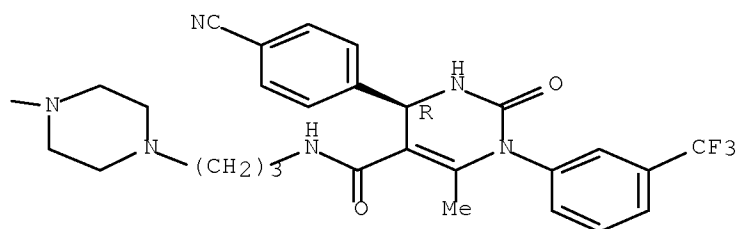
CN 5-Pyrimidinecarboxamide, N,N'-[[[1,1'-biphenyl]-2,2'-diylbis(carbonyl-4,1-piperazinediyl)-3,1-propanediyl]]bis[4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, (4R,4'R)- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

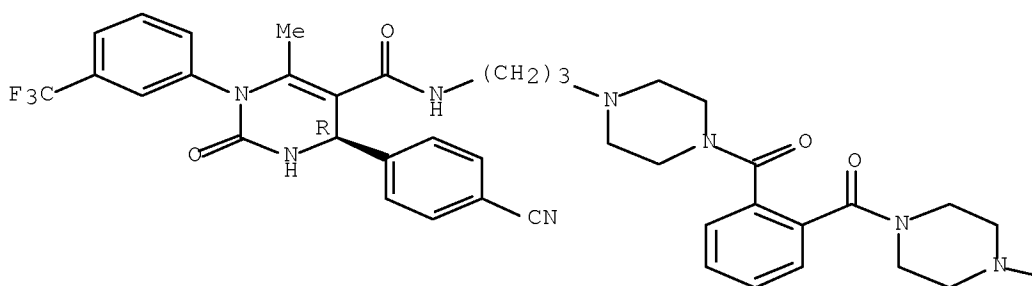


RN 917814-12-1 HCAPLUS

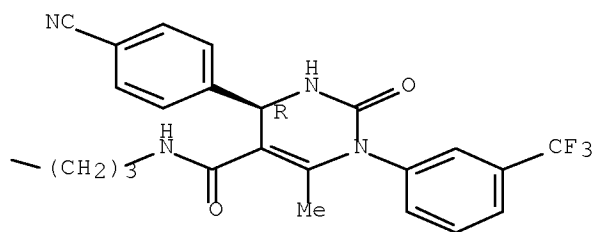
CN 5-Pyrimidinecarboxamide, N,N'-[1,4-phenylenebis(carbonyl-4,1-piperazinediyl-3,1-propanediyl)]bis[4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, (4R,4'R)- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



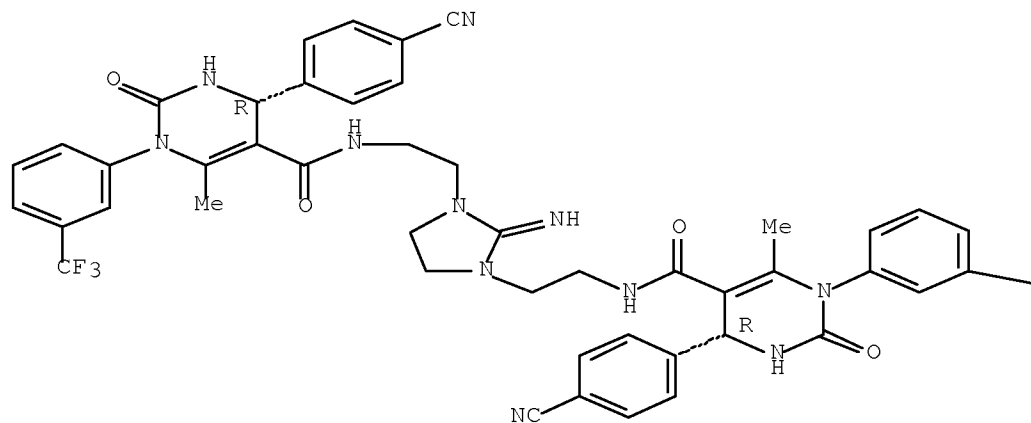
PAGE 1-B



RN 917814-14-3 HCAPLUS

CN 5-Pyrimidinecarboxamide, N,N'-[(2-imino-1,3-imidazolidinediyl)di-2,1-ethanediyl]bis[4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, (4R,4'R)- (CA INDEX NAME)

Absolute stereochemistry.

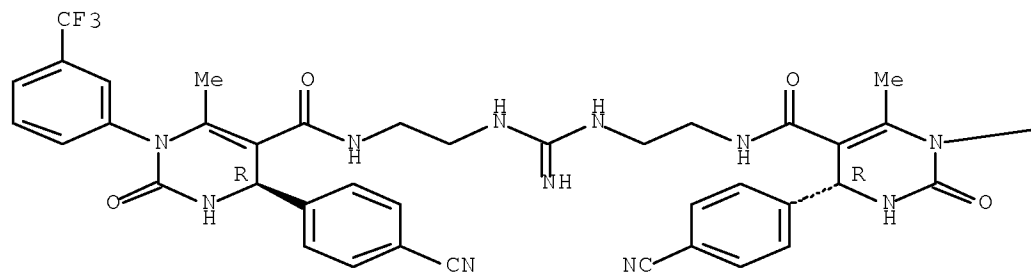


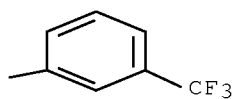
—CF<sub>3</sub>

RN 917814-16-5 HCAPLUS

CN 5-Pyrimidinecarboxamide, N,N'-[carbonimidoylbis(imino-2,1-ethanediyl)]bis[4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, (4R,4'R)- (CA INDEX NAME)

Absolute stereochemistry.

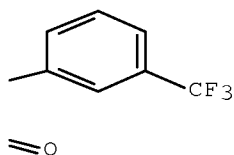
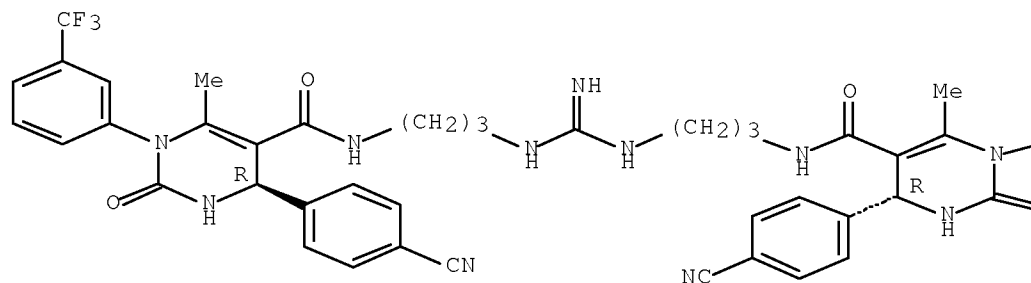




RN 917814-18-7 HCAPLUS

CN 5-Pyrimidinecarboxamide, N,N'-[carbonimidoylbis(imino-3,1-propanediyl)]bis[4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, (4R,4'R)- (CA INDEX NAME)

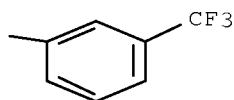
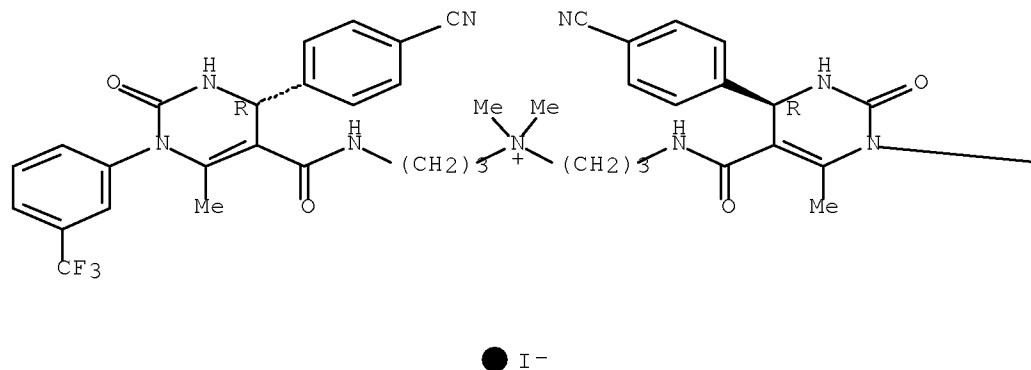
Absolute stereochemistry.



RN 917814-19-8 HCAPLUS

CN 1-Propanaminium, 3-[[[(4R)-4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-5-pyrimidinyl]carbonyl]amino]-N-[3-[[[(4R)-4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-5-pyrimidinyl]carbonyl]amino]propyl]-N,N-dimethyl-, iodide (1:1) (CA INDEX NAME)

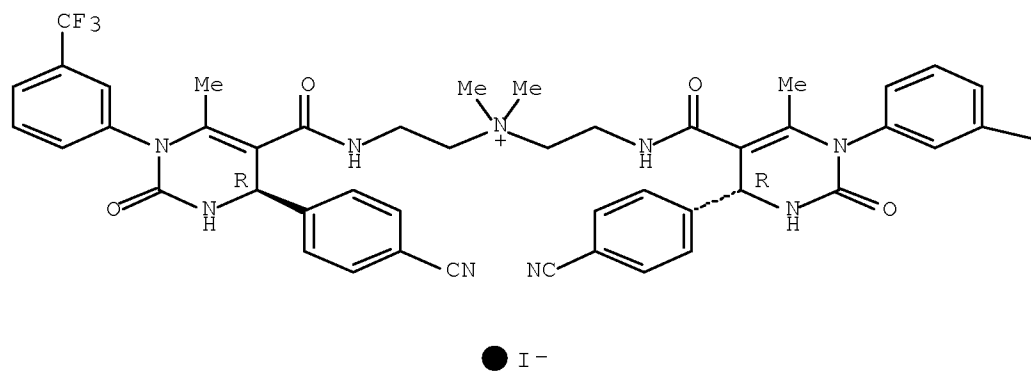
Absolute stereochemistry.



RN 917814-20-1 HCAPLUS

CN Ethanaminium, 2-[[[(4R)-4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-5-pyrimidinyl]carbonyl]amino]-N-[2-[[[(4R)-4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-5-pyrimidinyl]carbonyl]amino]ethyl]-N,N-dimethyl-, iodide (1:1) (CA INDEX NAME)

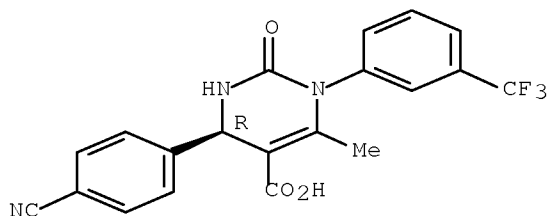
Absolute stereochemistry.



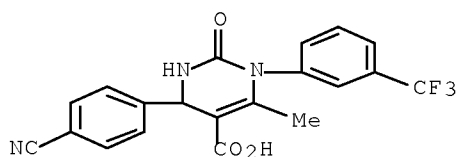
—CF<sub>3</sub>

IT 864228-16-0P  
 RL: PUR (Purification or recovery); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation of dihydropyrimidone multimers as human neutrophil elastase inhibitors)  
 RN 864228-16-0 HCAPLUS  
 CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, (4R)- (CA INDEX NAME)

Absolute stereochemistry.



IT 671775-95-4  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (preparation of dihydropyrimidone multimers as human neutrophil elastase inhibitors)  
 RN 671775-95-4 HCAPLUS  
 CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



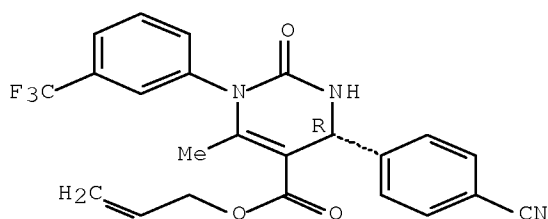
IT 864151-33-7P 904958-42-5P 917814-21-2P  
 917814-22-3P 917814-23-4P 917814-24-5P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation of dihydropyrimidone multimers as human neutrophil elastase inhibitors)

inhibitors)

RN 864151-33-7 HCAPLUS

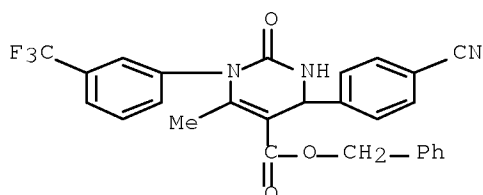
CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, 2-propen-1-yl ester, (4R)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 904958-42-5 HCAPLUS

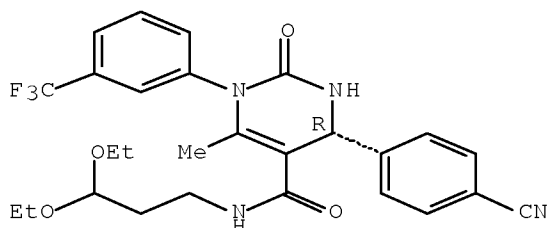
CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, phenylmethyl ester (CA INDEX NAME)



RN 917814-21-2 HCAPLUS

CN 5-Pyrimidinecarboxamide, 4-(4-cyanophenyl)-N-(3,3-diethoxypropyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, (4R)- (CA INDEX NAME)

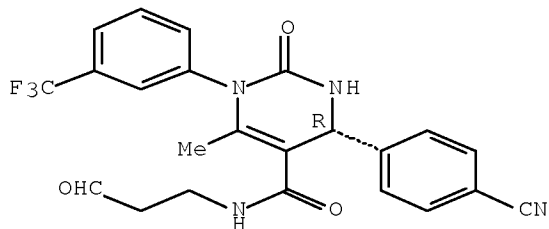
Absolute stereochemistry.



RN 917814-22-3 HCAPLUS

CN 5-Pyrimidinecarboxamide, 4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-N-(3-oxopropyl)-1-[3-(trifluoromethyl)phenyl]-, (4R)- (CA INDEX NAME)

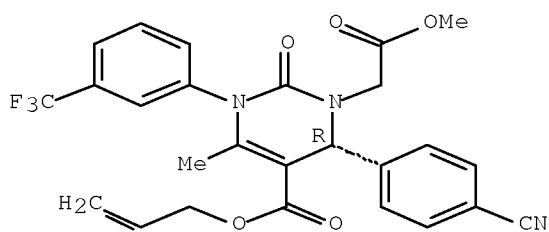
Absolute stereochemistry.



RN 917814-23-4 HCAPLUS

CN 1(2H)-Pyrimidineacetic acid, 6-(4-cyanophenyl)-3,6-dihydro-4-methyl-2-oxo-5-[(2-propen-1-yloxy)carbonyl]-3-[3-(trifluoromethyl)phenyl]-, methyl ester, (6R)- (CA INDEX NAME)

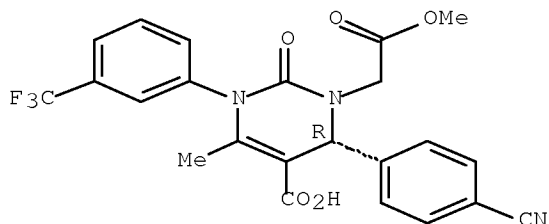
Absolute stereochemistry.



RN 917814-24-5 HCAPLUS

CN 1(2H)-Pyrimidineacetic acid, 5-carboxy-6-(4-cyanophenyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, 1-methyl ester, (6R)- (CA INDEX NAME)

Absolute stereochemistry.



IT 917814-25-6P

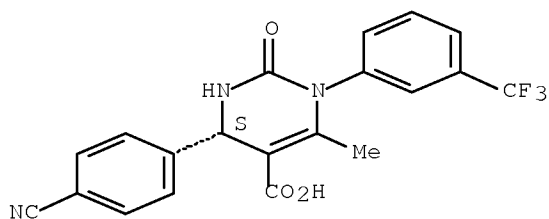
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of dihydropyrimidone multimers as human neutrophil elastase inhibitors)

RN 917814-25-6 HCAPLUS

Serial No.:10/590,786

CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, (4S)- (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L57 ANSWER 2 OF 15 HCAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 2

ACCESSION NUMBER: 2006:796025 HCAPLUS Full-text

DOCUMENT NUMBER: 145:211067

TITLE: Multimers of tetrahydropyrimidinone compounds as elastase inhibitors and their preparation, pharmaceutical compositions, and use for treatment of respiratory diseases

INVENTOR(S): Finch, Harry; Edwards, Christine; Ray, Nicholas Charles; O'Connor, Elizabeth Anne; Fitzgerald, Mary F.

PATENT ASSIGNEE(S): Argenta Discovery Ltd, UK

SOURCE: PCT Int. Appl., 132 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006082412	A2	20060810	WO 2006-GB361	20060203 <--
WO 2006082412	A3	20061012		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
AU 2006210730	A1	20060810	AU 2006-210730	20060203 <--
CA 2595801	A1	20060810	CA 2006-2595801	20060203 <--
EP 1856059	A2	20071121	EP 2006-709612	20060203 <--
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR			
IN 2007DN05905	A	20070817	IN 2007-DN5905	20070727 <--

Serial No.:10/590,786

CN 101151252 A 20080326 CN 2006-80009856 20070926 <--  
 PRIORITY APPLN. INFO.: GB 2005-2258 A 20050203 <--  
 WO 2006-GB361 W 20060203  
 OTHER SOURCE(S): MARPAT 145:211067  
 ED Entered STN: 11 Aug 2006  
 GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

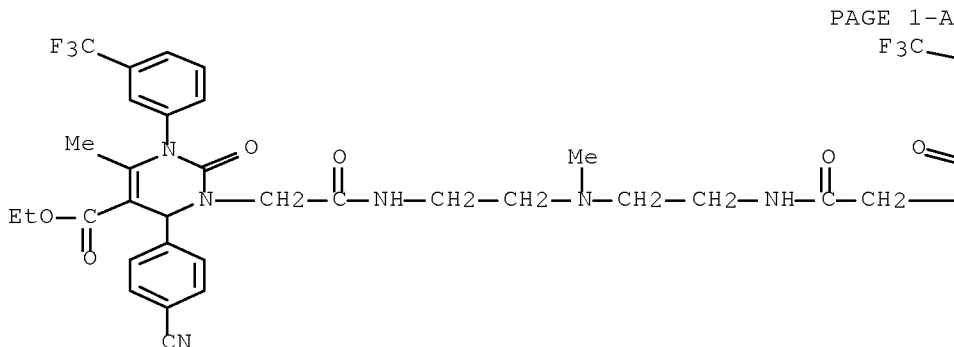
AB A compound of formula I is useful in therapy, e.g. of respiratory diseases. Compds. of formula I wherein L is a linker; each A are independently (un)substituted (hetero)aryl; D is O or S; each Y1 - Y5 are independently CH, CR3, CR6 or N, with the proviso that one of them is CR3, one CR6 and not more than two N per ring; each R3 are independently H, halo, NO2, CN, (un)substituted C1-6 alkyl, OH, or (un)substituted C1-6 alkoxy; each R4 are independently COCF3, (un)substituted C1-6 alkylcarbonyl, (un)substituted C1-6 alkoxy carbonyl, (un)substituted C1-6 alkenyloxycarbonyl, hydroxycarbonyl, CONH2 and derivs., (un)substituted (hetero)aroyl, etc.; each R5 are independently (un)substituted C1-4 alkyl or amino; each R6 are independently halo, NO2, CN, (un)substituted C1-6 alkyl, OH, or (un)substituted C1-6 alkoxy; and their pharmaceutically acceptable salts, solvates or N-oxides thereof are claimed. Example compound II was prepared by N-alkylation of compound III with 1,12-dibromododecane. The invention compds. were evaluated for their elastase inhibitory activity. The tested compds. were shown to have desirable HNE inhibitory activity (no data).

IT 904957-71-7P 904957-72-8P 904957-86-4P  
 904958-07-2P

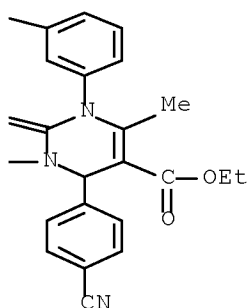
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
 (drug candidate and intermediate; preparation of multimers of tetrahydropyrimidinone compds. as elastase inhibitors useful in the treatment of respiratory diseases)

RN 904957-71-7 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-3-[2-[[2-[[2-[[2-[6-(4-cyanophenyl)-5-(ethoxycarbonyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]amino]ethyl]methylamino]ethyl]amino]-2-oxoethyl]-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, ethyl ester (CA INDEX NAME)



PAGE 1-B

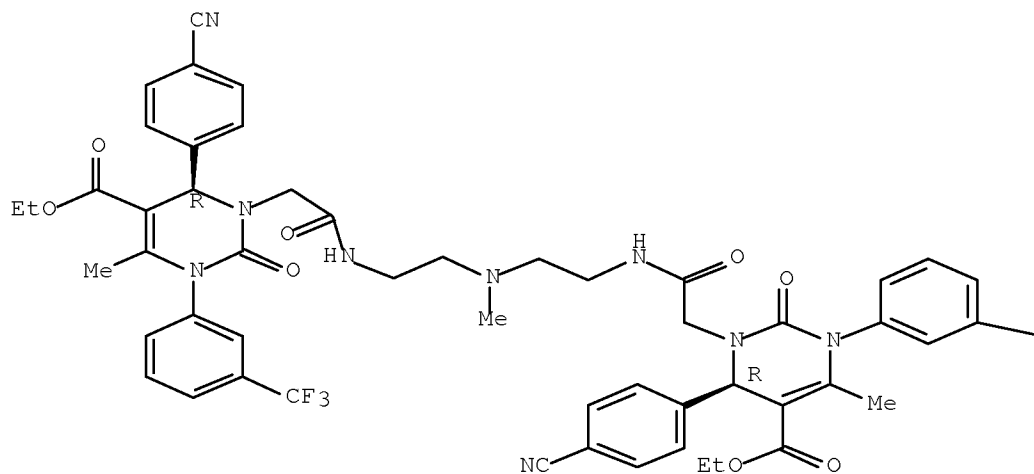


RN 904957-72-8 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-3-[2-[[2-[[2-[[2-[(6R)-6-(4-cyanophenyl)-5-(ethoxycarbonyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]amino]ethyl]methylamino]ethyl]amino]-2-oxoethyl]-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, ethyl ester, (4R)- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



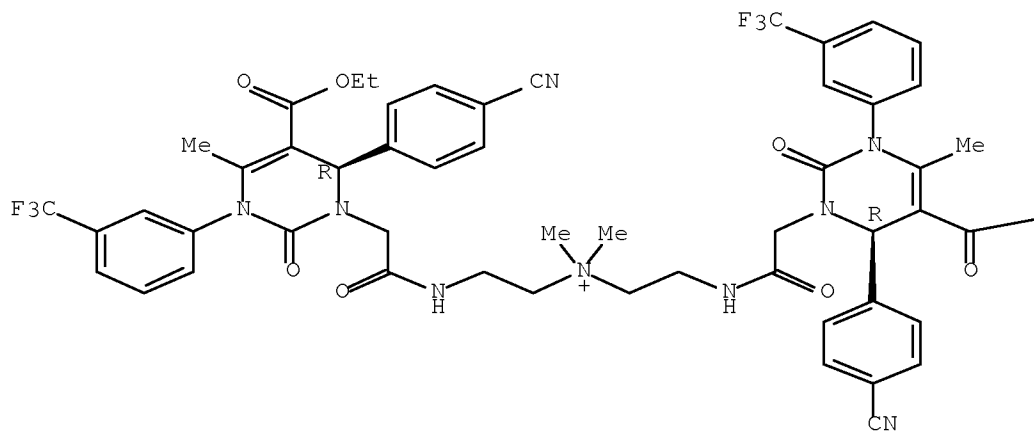
—CF<sub>3</sub>

RN 904957-86-4 HCAPLUS

CN Ethanaminium, 2-[[2-[(6R)-6-(4-cyanophenyl)-5-(ethoxycarbonyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]amino]-N-[2-[[2-[(6R)-6-(4-cyanophenyl)-5-(ethoxycarbonyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]amino]ethyl]-N,N-dimethyl-, iodide (1:1) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



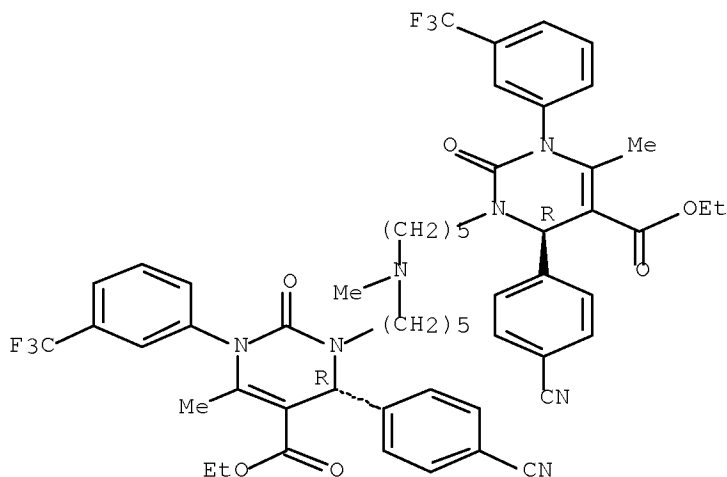
PAGE 1-B

—OEt

● I-

RN 904958-07-2 HCAPLUS  
 CN 5-Pyrimidinecarboxylic acid, 1,1'-[(methylimino)di-5,1-pentanediy]bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, diethyl ester, (6R,6'R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 904957-62-6P 904957-63-7P 904957-64-8P  
 904957-65-9P 904957-66-0P 904957-67-1P  
 904957-68-2P 904957-69-3P 904957-70-6P  
 904957-73-9P 904957-74-0P 904957-75-1P  
 904957-76-2P 904957-77-3P 904957-78-4P  
 904957-79-5P 904957-80-6P 904957-81-9P  
 904957-83-1P 904957-84-2P 904957-85-3P  
 904957-87-5P 904957-88-6P 904957-89-7P  
 904957-90-0P 904957-91-1P 904957-92-2P  
 904957-93-3P 904957-94-4P 904957-95-5P  
 904957-96-6P 904957-97-7P 904957-98-8P  
 904957-99-9P 904958-00-5P 904958-01-6P  
 904958-02-7P 904958-03-8P 904958-04-9P  
 904958-05-0P 904958-06-1P 904958-08-3P  
 904958-09-4P 904958-10-7P 904958-11-8P  
 904958-12-9P 904958-13-0P 904958-14-1P  
 904958-15-2P 904958-16-3P 904958-17-4P  
 904958-18-5P 904958-19-6P 904958-20-9P  
 904958-21-0P 904958-22-1P 904958-23-2P  
 904958-24-3P 904958-25-4P 904958-26-5P  
 904958-27-6P 904958-28-7P 904958-30-1P  
 904958-31-2P 904958-32-3P 904958-33-4P  
 904958-34-5P 904958-37-8P 904958-39-0P  
 904958-41-4P

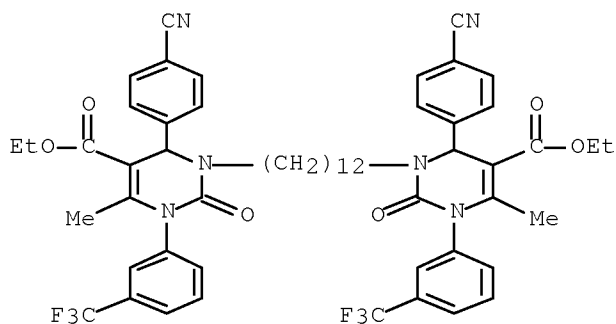
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of multimers of tetrahydropyrimidinone compds. as elastase inhibitors useful in the treatment of respiratory diseases)

RN 904957-62-6 HCAPLUS

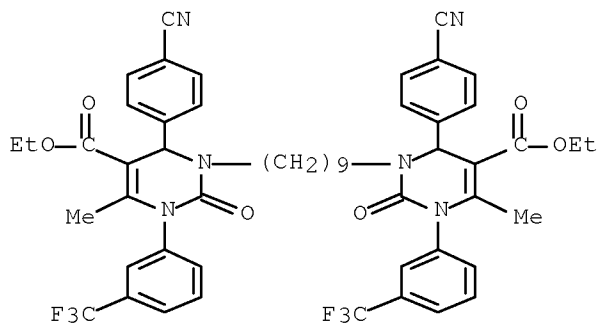
Serial No.:10/590,786

CN 5-Pyrimidinecarboxylic acid, 1,1'-(1,12-dodecanediyl)bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, diethyl ester (9CI) (CA INDEX NAME)



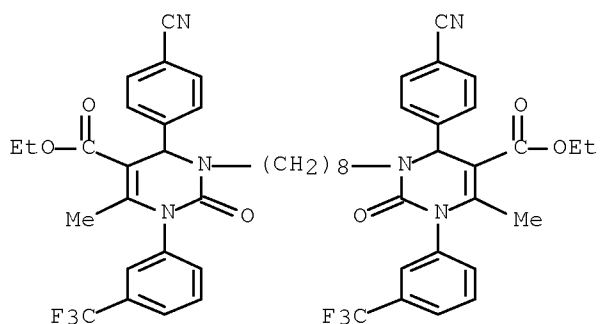
RN 904957-63-7 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1,1'-(1,9-nonanediyl)bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, diethyl ester (9CI) (CA INDEX NAME)



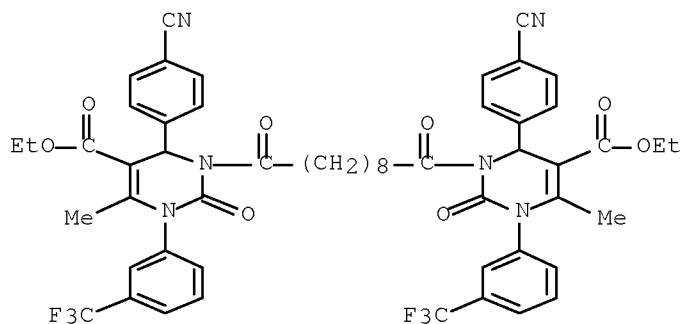
RN 904957-64-8 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1,1'-(1,8-octanediyl)bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, diethyl ester (9CI) (CA INDEX NAME)



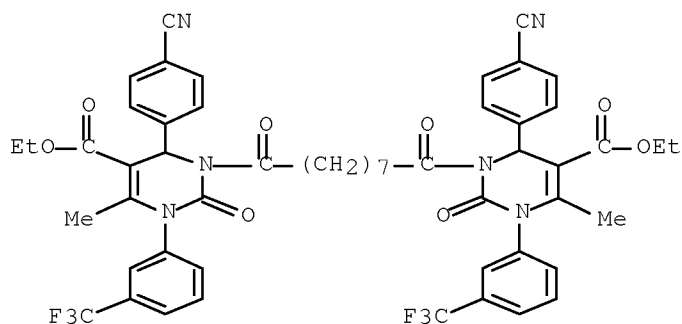
RN 904957-65-9 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1,1'-(1,10-dioxo-1,10-decanediyl)bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, diethyl ester (9CI) (CA INDEX NAME)



RN 904957-66-0 HCAPLUS

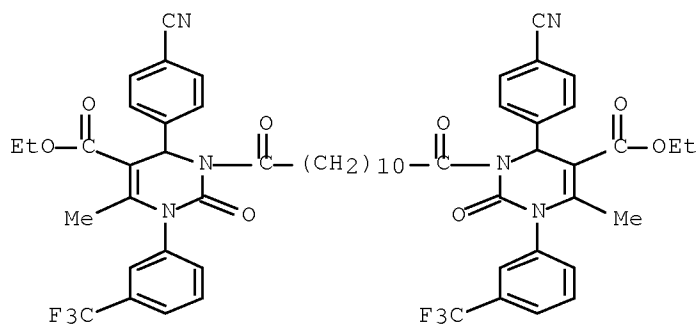
CN 5-Pyrimidinecarboxylic acid, 1,1'-(1,9-dioxo-1,9-nonanediyl)bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, diethyl ester (9CI) (CA INDEX NAME)



RN 904957-67-1 HCAPLUS

Serial No.:10/590,786

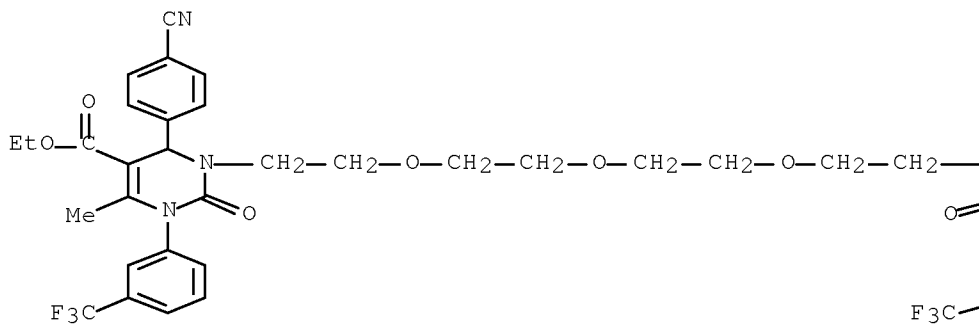
CN 5-Pyrimidinecarboxylic acid, 1,1'-(1,12-dioxo-1,12-dodecanediyl)bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, diethyl ester (9CI) (CA INDEX NAME)



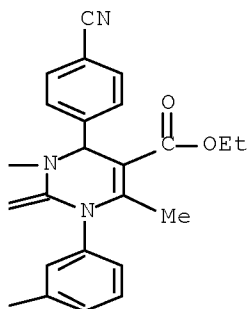
RN 904957-68-2 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1,1'-[oxybis(2,1-ethanediyl)oxy-2,1-ethanediyl]bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, diethyl ester (9CI) (CA INDEX NAME)

PAGE 1-A

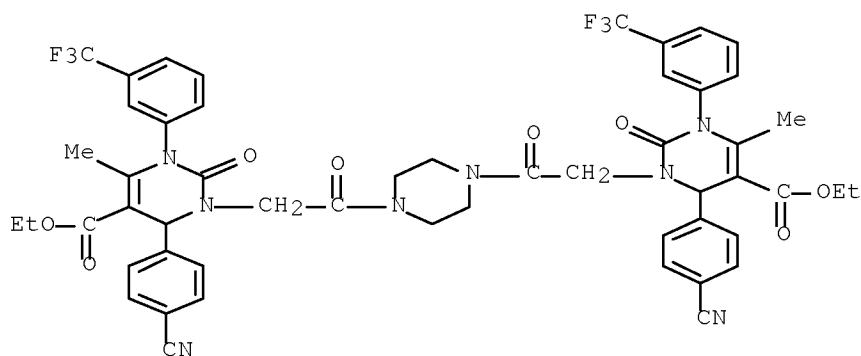


PAGE 1-B



RN 904957-69-3 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-3-[2-[4-[2-[6-(4-cyanophenyl)-5-(ethoxycarbonyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]-1-piperazinyl]-2-oxoethyl]-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, ethyl ester (CA INDEX NAME)

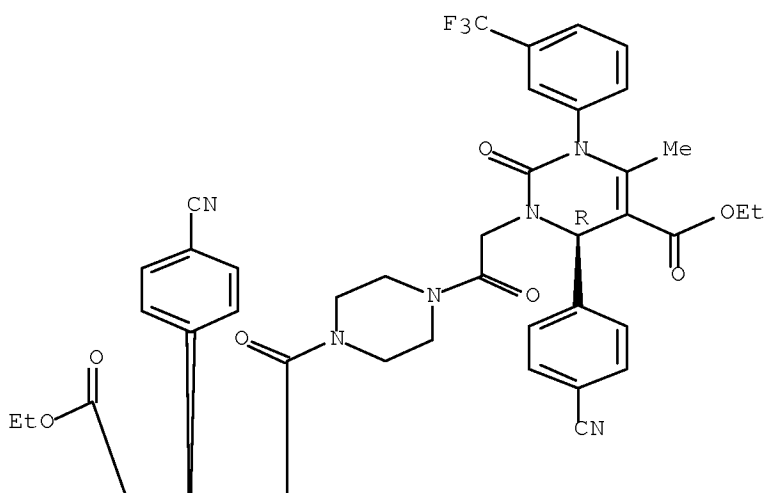


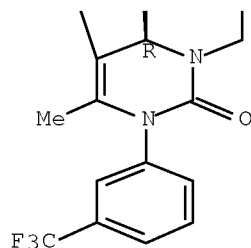
RN 904957-70-6 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-3-[2-[4-[2-[(6R)-6-(4-cyanophenyl)-5-(ethoxycarbonyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]-1-piperazinyl]-2-oxoethyl]-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, ethyl ester, (4R)- (CA INDEX NAME)

Absolute stereochemistry.

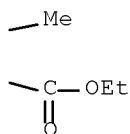
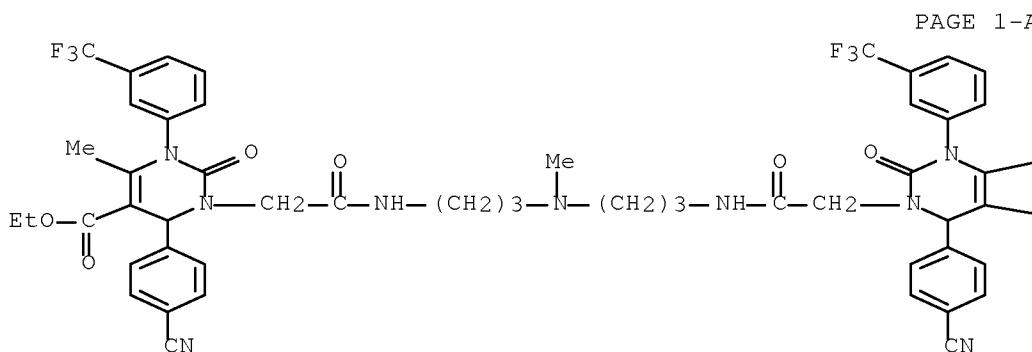
PAGE 1-A





RN 904957-73-9 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-3-[2-[[3-[[3-[[2-[6-(4-cyanophenyl)-5-(ethoxycarbonyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]amino]propyl]methylamino]propyl]amino]-2-oxoethyl]-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, ethyl ester (CA INDEX NAME)

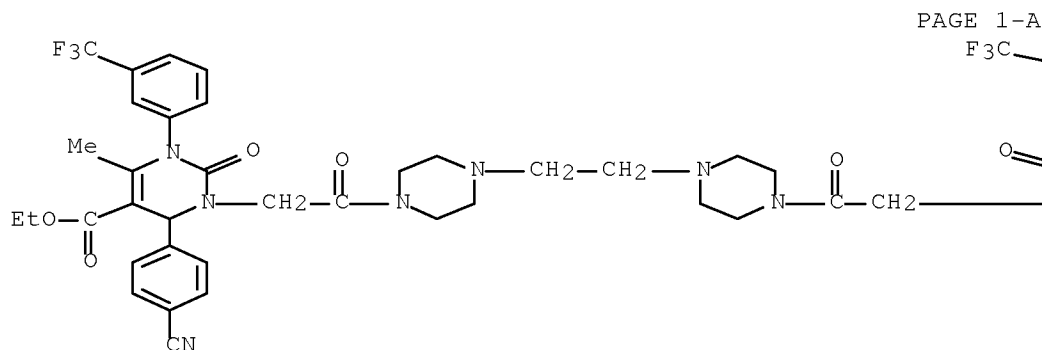


RN 904957-74-0 HCAPLUS

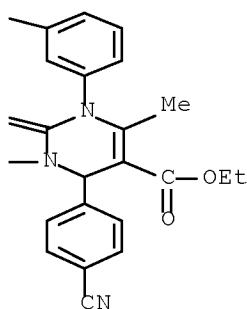
CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-3-[2-[4-[2-[4-[2-[6-(4-cyanophenyl)-5-(ethoxycarbonyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]-1-piperazinyl]ethyl]-1-

Serial No.:10/590,786

piperazinyl]-2-oxoethyl]-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, ethyl ester (CA INDEX NAME)



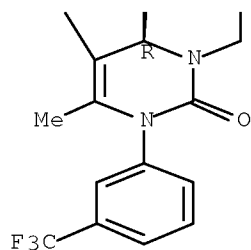
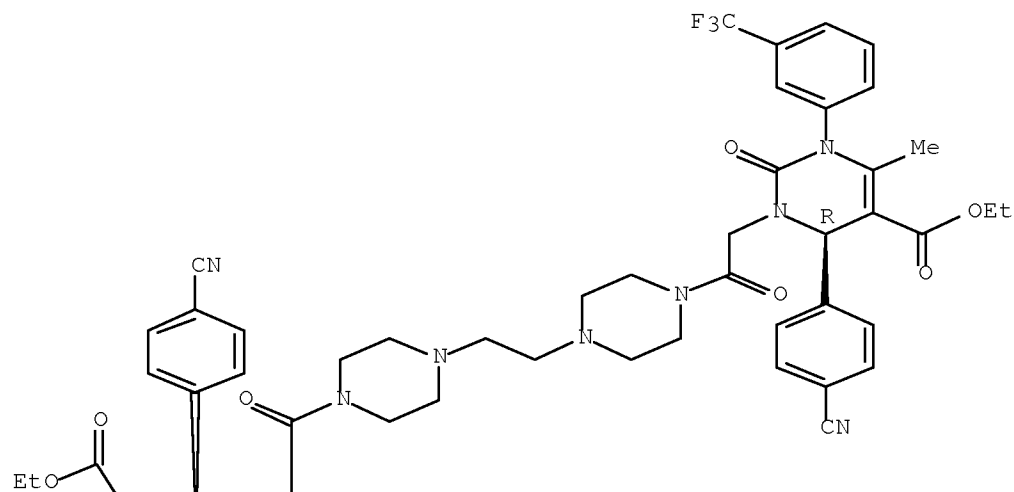
PAGE 1-B



RN 904957-75-1 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-3-[2-[4-[2-[4-[2-[(6R)-6-(4-cyanophenyl)-5-(ethoxycarbonyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]-1-piperazinyl]ethyl]-1-piperazinyl]-2-oxoethyl]-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, ethyl ester, (4R)- (CA INDEX NAME)

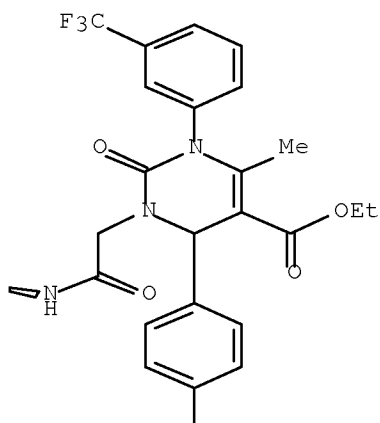
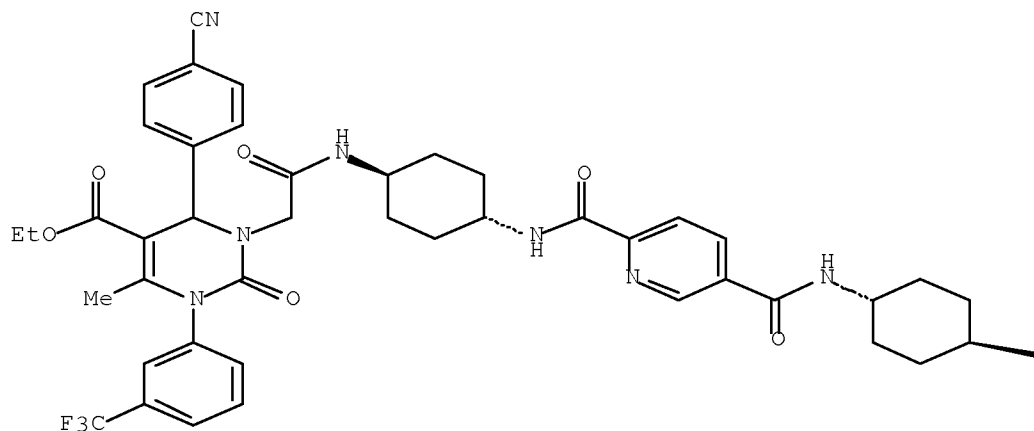
Absolute stereochemistry.



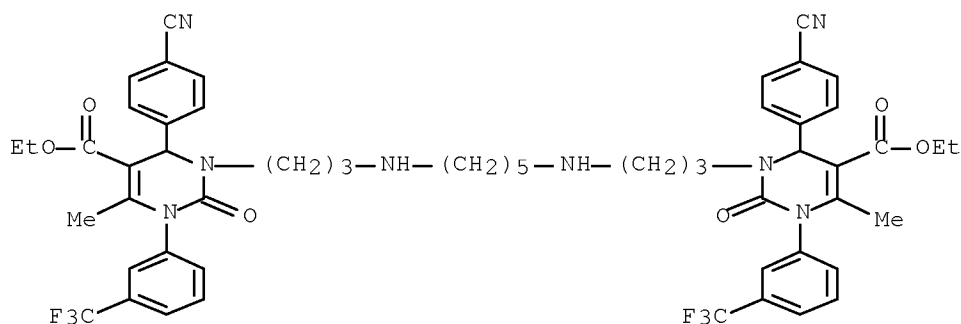
RN 904957-76-2 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-3-[2-[[trans-4-[[[5-[[[trans-4-[[2-[6-(4-cyanophenyl)-5-(ethoxycarbonyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]amino]cyclohexyl]amino]carbonyl]-2-pyridinyl]carbonyl]amino]cyclohexyl]amino]-2-oxoethyl]-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, ethyl ester (CA INDEX NAME)

Relative stereochemistry.

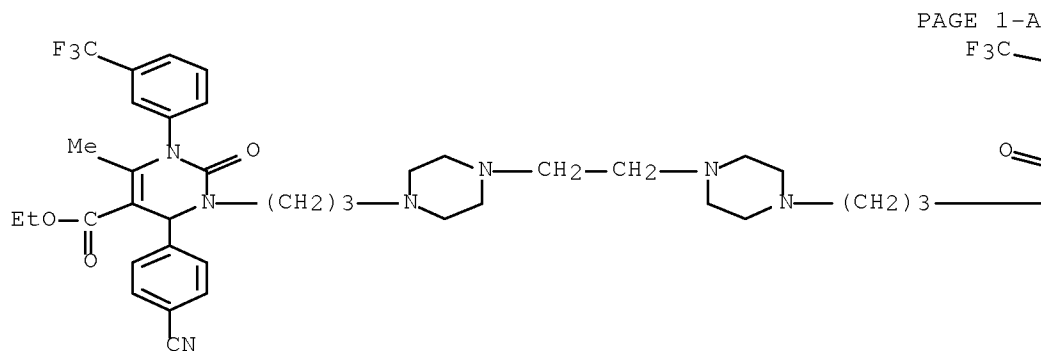


RN 904957-77-3 HCAPLUS  
 CN 5-Pyrimidinecarboxylic acid, 1,1'-[1,5-pentanediy]bis(imino-3,1-propanediy)]bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, diethyl ester, (6R,6'R)- (9CI) (CA INDEX NAME)



RN 904957-78-4 HCAPLUS

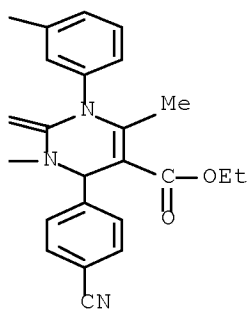
CN 5-Pyrimidinecarboxylic acid, 1,1'-[1,2-ethanediylbis(4,1-piperazinediyl-3,1-propanediyl)]bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, diethyl ester (9CI) (CA INDEX NAME)



PAGE 1-A

F<sub>3</sub>C

PAGE 1-B



RN 904957-79-5 HCAPLUS

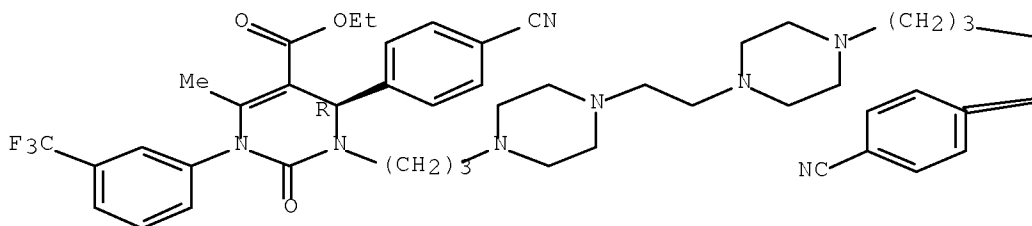
CN 5-Pyrimidinecarboxylic acid, 1,1'-[1,2-ethanediylbis(4,1-piperazinediyl-

Serial No.:10/590,786

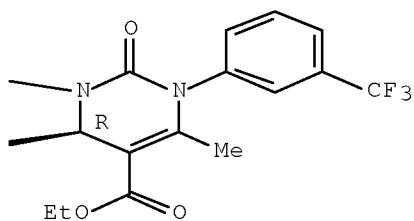
3,1-propanediyl]]bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, diethyl ester, (6R,6'R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

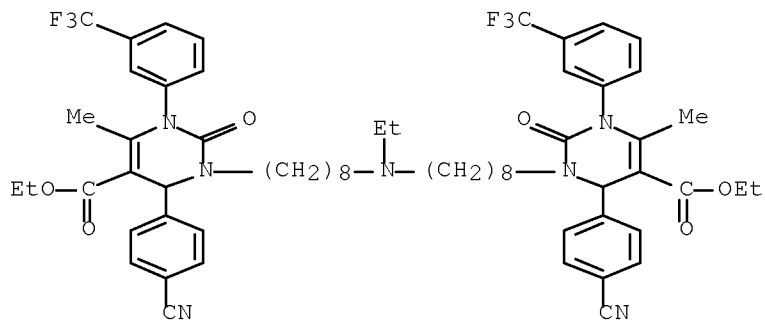


PAGE 1-B



RN 904957-80-8 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1,1'-[(ethylimino)di-8,1-octanediyl]]bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, diethyl ester (9CI) (CA INDEX NAME)

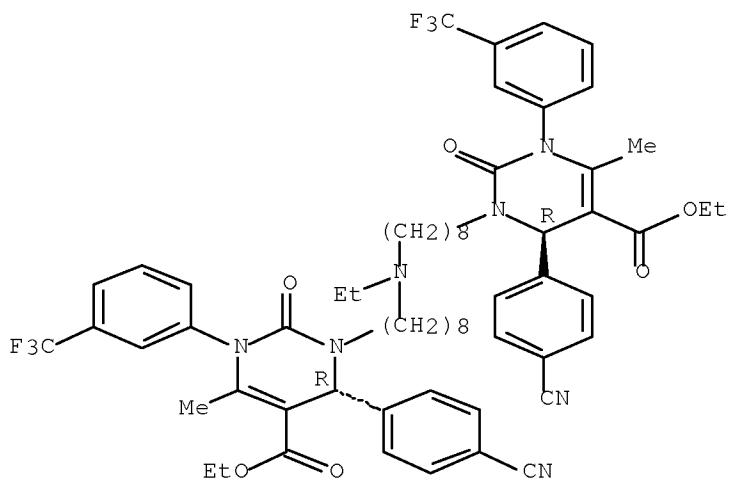


RN 904957-81-9 HCAPLUS

Serial No.:10/590,786

CN 5-Pyrimidinecarboxylic acid, 1,1'-[(ethylimino)di-8,1-octanediyl]bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, diethyl ester, (6R,6'R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



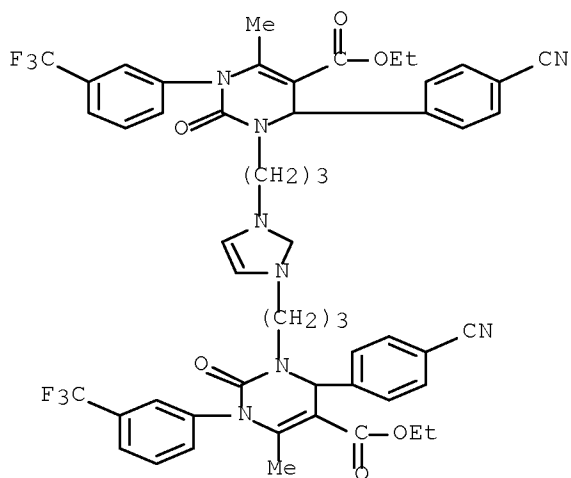
RN 904957-83-1 HCAPLUS

CN 1H-Imidazolium, 1,3-bis[3-[6-(4-cyanophenyl)-5-(ethoxycarbonyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]propyl]-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CM 1

CRN 904957-82-0

CMF C53 H49 F6 N8 O6

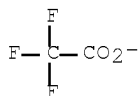


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

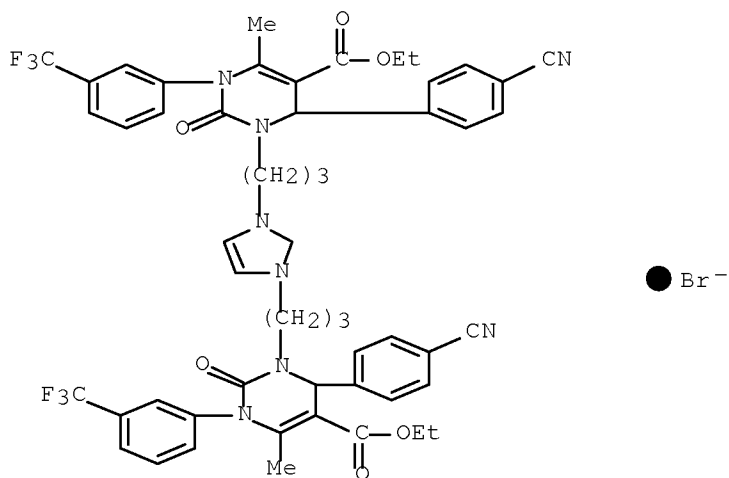
CRN 14477-72-6

CMF C2 F3 O2



RN 904957-84-2 HCAPLUS

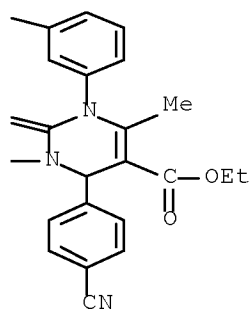
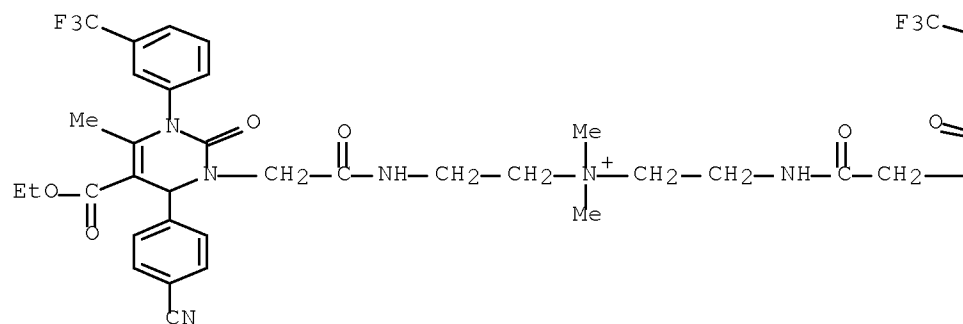
CN 1H-Imidazolium, 1,3-bis[3-[6-(4-cyanophenyl)-5-(ethoxycarbonyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]propyl]-, bromide (1:1) (CA INDEX NAME)



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

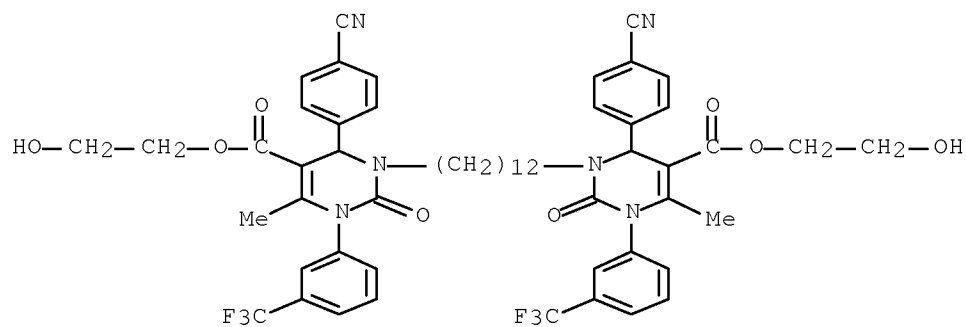
RN 904957-85-3 HCAPLUS

CN Ethanaminium, 2-[[2-[6-(4-cyanophenyl)-5-(ethoxycarbonyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]amino]-N-[2-[[2-[6-(4-cyanophenyl)-5-(ethoxycarbonyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]amino]ethyl]-N,N-dimethyl-, iodide (1:1) (CA INDEX NAME)



RN 904957-87-5 HCAPLUS

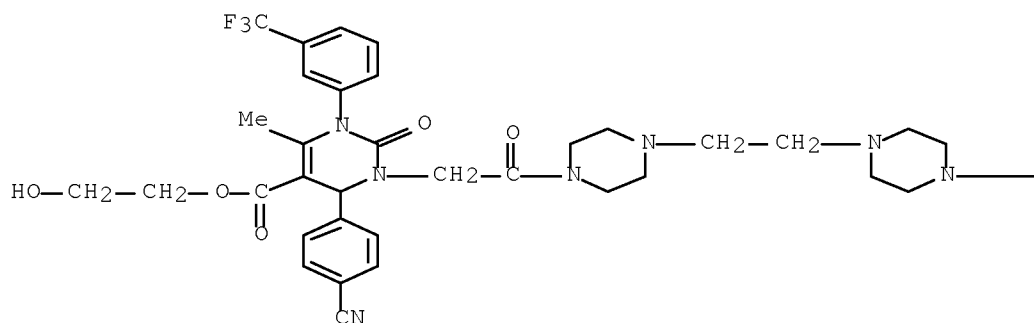
CN 5-Pyrimidinecarboxylic acid, 1,1'-(1,12-dodecanediyl)bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, bis(2-hydroxyethyl) ester (9CI) (CA INDEX NAME)



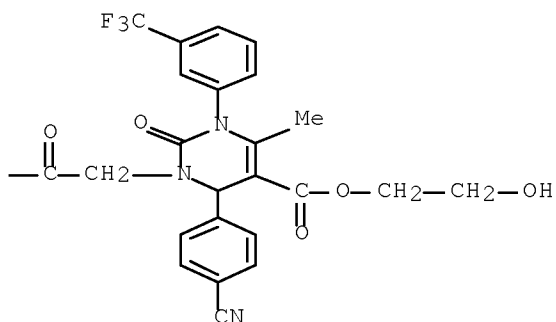
RN 904957-88-6 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-3-[2-[4-[2-[4-[2-[6-(4-cyanophenyl)-3,6-dihydro-5-[(2-hydroxyethoxy)carbonyl]-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]-1-piperazinyl]ethyl]-1-piperazinyl]-2-oxoethyl]-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, 2-hydroxyethyl ester (CA INDEX NAME)

PAGE 1-A

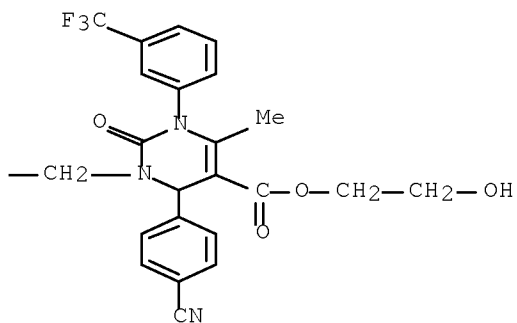
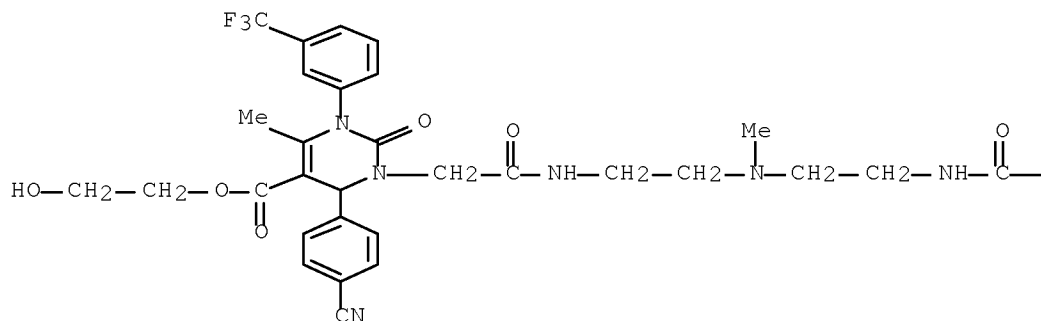


PAGE 1-B



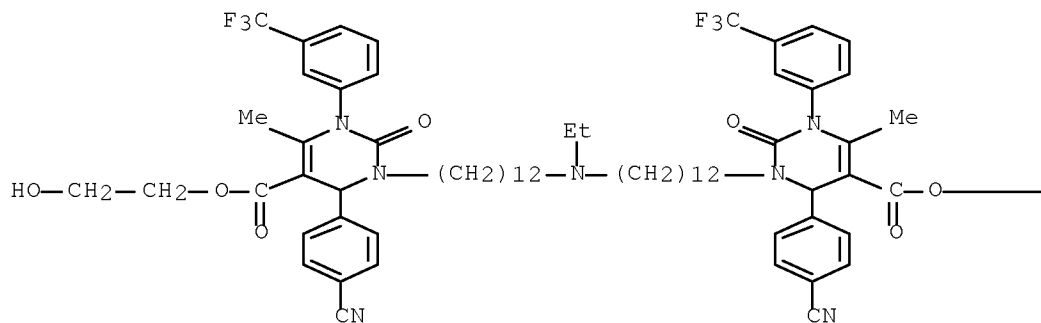
RN 904957-89-7 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-3-[2-[2-[2-[2-[6-(4-cyanophenyl)-3,6-dihydro-5-[(2-hydroxyethoxy)carbonyl]-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]amino]ethyl]methylamino]ethyl]amino]-2-oxoethyl]-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, 2-hydroxyethyl ester (CA INDEX NAME)

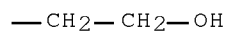


RN 904957-90-0 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1,1'-[(ethylimino)di-12,1-dodecanediyl]bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, bis(2-hydroxyethyl) ester (9CI) (CA INDEX NAME)

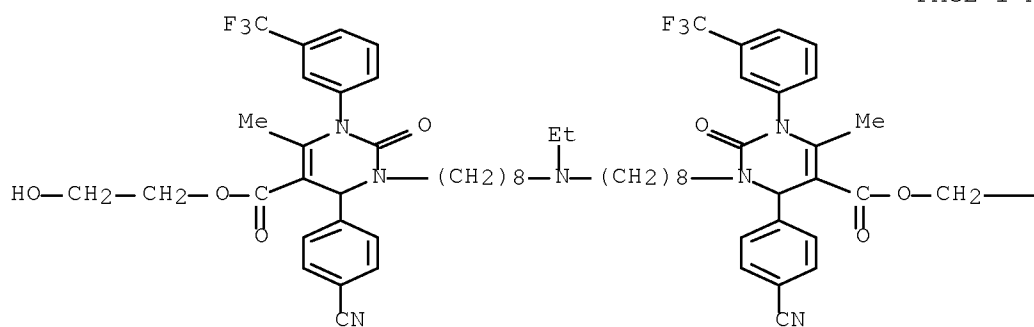


PAGE 1-B

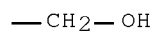


RN 904957-91-1 HCAPLUS  
 CN 5-Pyrimidinecarboxylic acid, 1,1'-[(ethylimino)di-8,1-octanediyl]bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, bis(2-hydroxyethyl) ester (9CI) (CA INDEX NAME)

PAGE 1-A

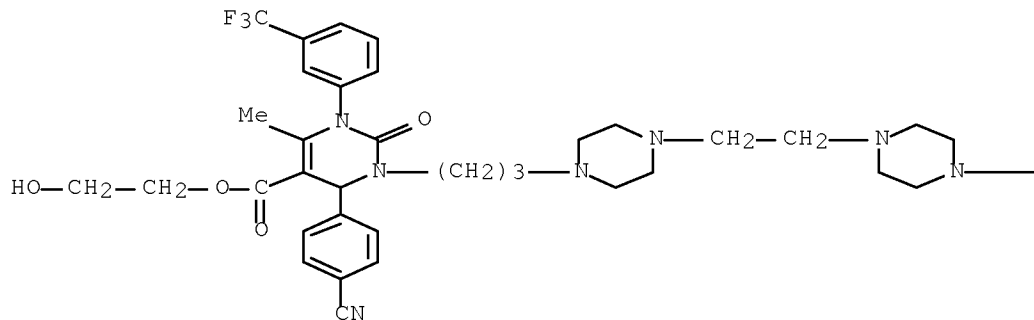


PAGE 1-B

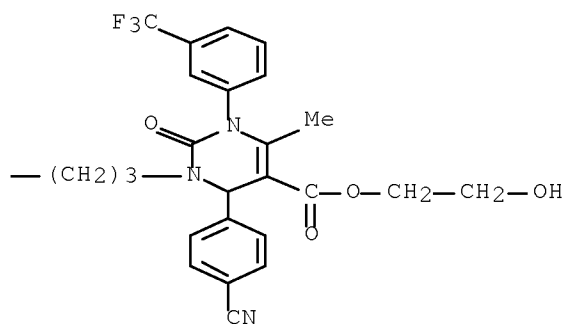


RN 904957-92-2 HCAPLUS  
 CN 5-Pyrimidinecarboxylic acid, 1,1'-[1,2-ethanediylbis(4,1-piperazinediyl-3,1-propanediyl)]bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, bis(2-hydroxyethyl) ester (9CI) (CA INDEX NAME)

PAGE 1-A



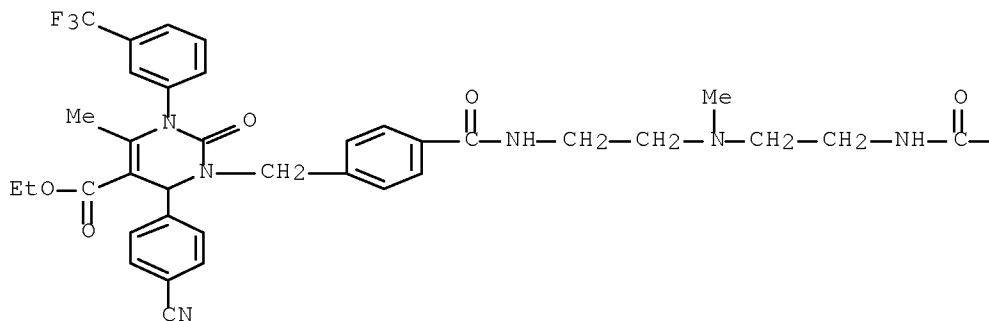
PAGE 1-B



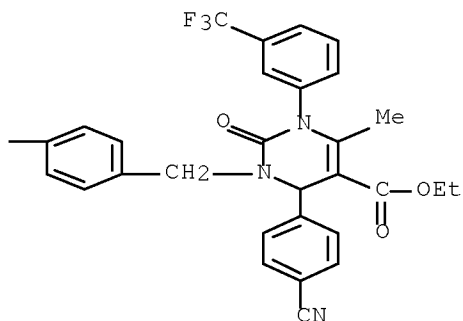
RN 904957-93-3 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-3-[[4-[[[2-[[2-[[4-[[6-(4-cyanophenyl)-5-(ethoxycarbonyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]methyl]benzoyl]amino]ethyl]methylamino]ethyl]amino]carbonyl]phenyl]methyl]-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, ethyl ester (CA INDEX NAME)

PAGE 1-A

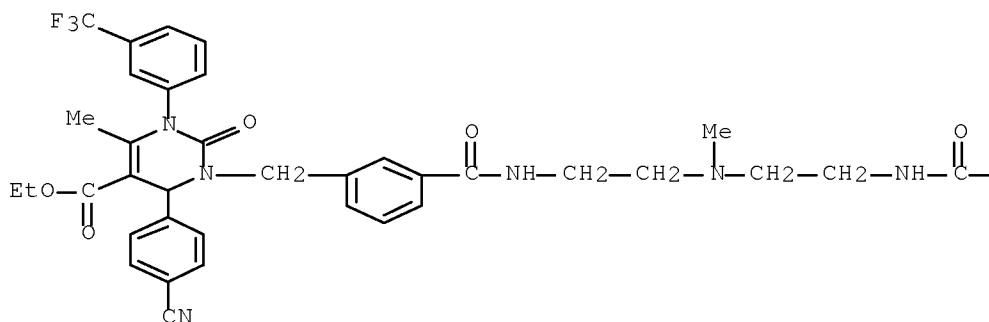


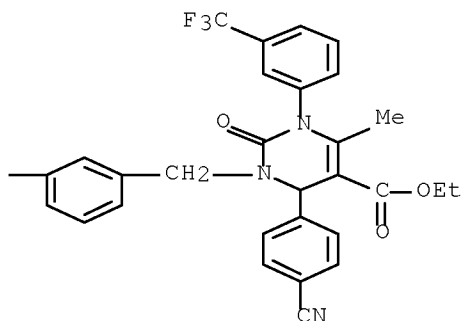
PAGE 1-B



RN 904957-94-4 HCAPLUS  
 CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-3-[[[3-[[[2-[[2-[[3-[[6-(4-cyanophenyl)-5-(ethoxycarbonyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]methyl]benzoyl]amino]ethyl]methylamino]ethyl]amino]carbonyl]phenyl]methyl]-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, ethyl ester (CA INDEX NAME)

PAGE 1-A

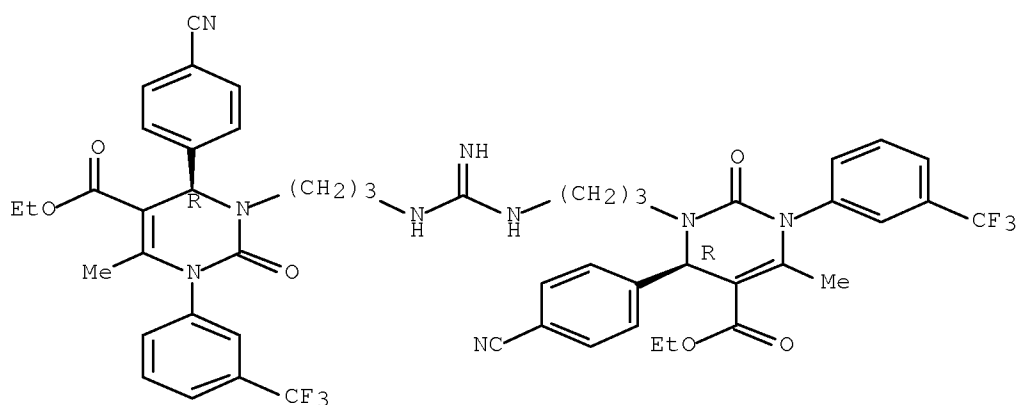




RN 904957-95-5 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1,1'-[carbonimidoylbis(imino-3,1-propanediyl)]bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, diethyl ester, (6R,6'R)- (9CI) (CA INDEX NAME)

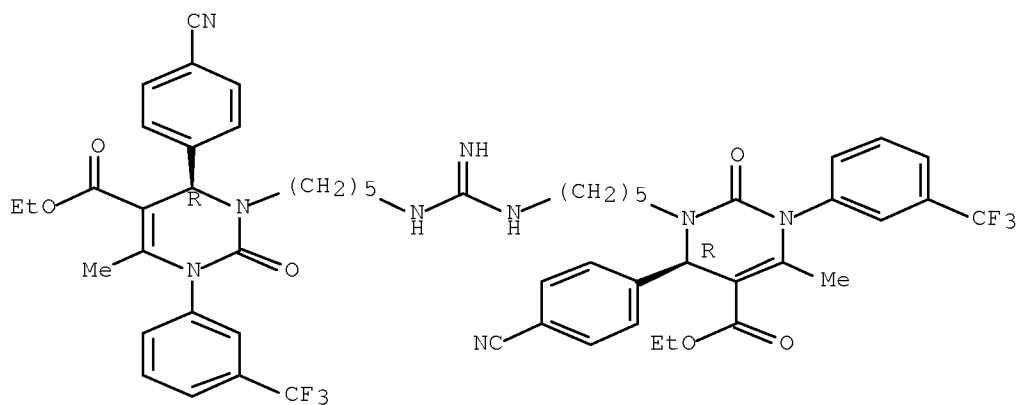
Absolute stereochemistry.



RN 904957-96-6 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1,1'-[carbonimidoylbis(imino-5,1-pentenediyl)]bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, diethyl ester, (6R,6'R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

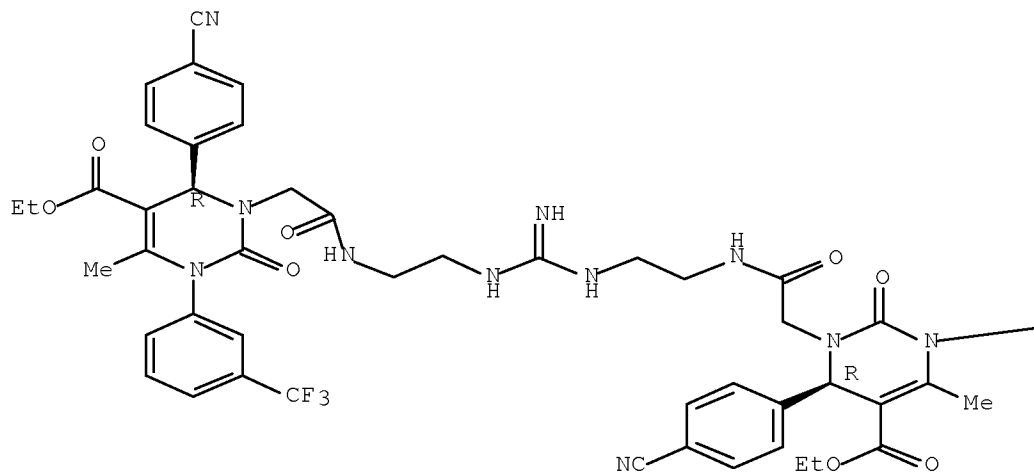


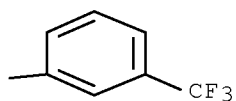
RN 904957-97-7 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1,1'-(7-imino-2,12-dioxo-3,6,8,11-tetraaza-1,13-tridecanediyl)bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, diethyl ester, (6R,6'R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



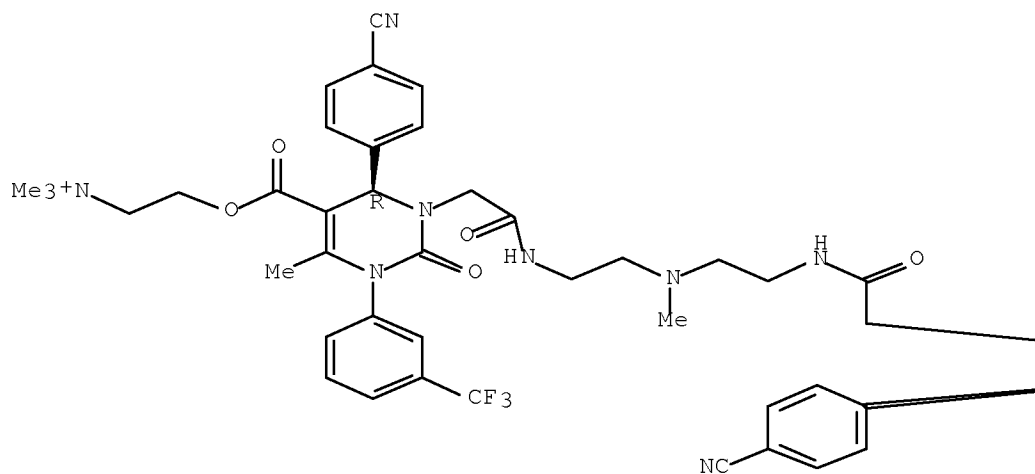


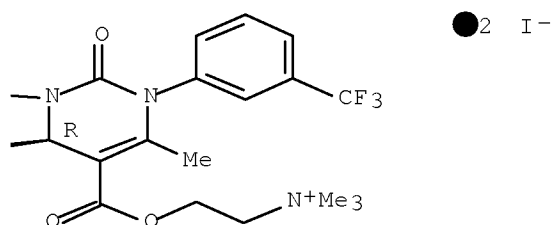
RN 904957-98-8 HCAPLUS

CN Ethanaminium, 2,2'-[(methylimino)bis[2,1-ethanediylimino(2-oxo-2,1-ethanediyl)][(6R)-6-(4-cyanophenyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1,5(2H)-pyrimidinediyl]carbonyloxy]]bis[N,N,N-trimethyl-, diiodide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

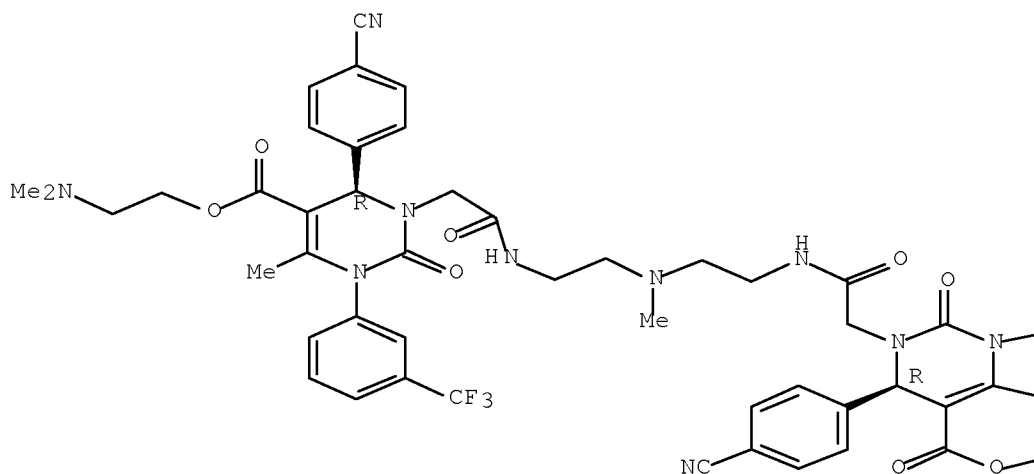


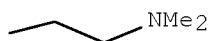
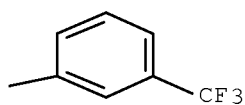


RN 904957-99-9 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-3-[2-[[2-[[2-[[2-[(6R)-6-(4-cyanophenyl)-5-[[2-(dimethylamino)ethoxy]carbonyl]-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]amino]ethyl]methylamino]ethyl]amino]-2-oxoethyl]-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, 2-(dimethylamino)ethyl ester, (4R)- (CA INDEX NAME)

Absolute stereochemistry.

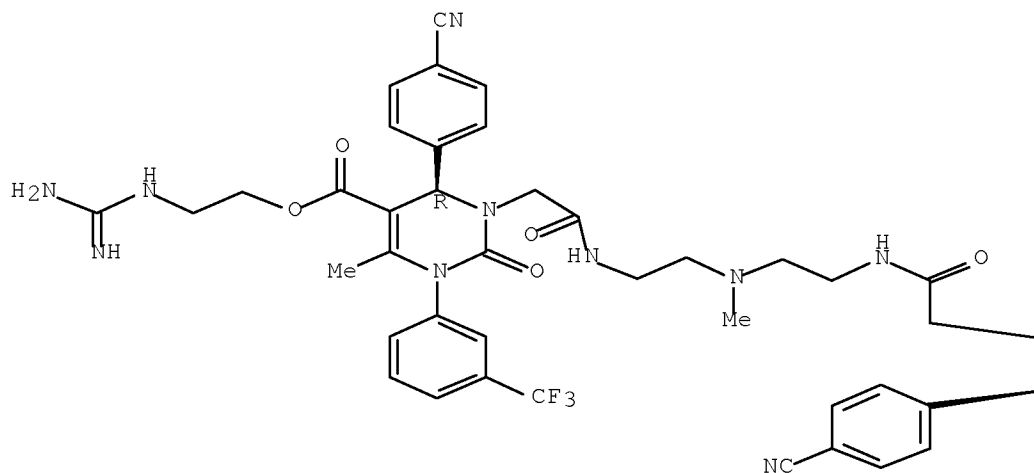


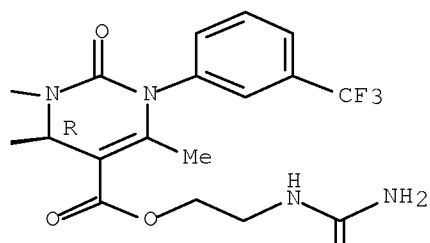


RN 904958-00-5 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 3-[2-[[2-[[2-[[2-[(6R)-5-[[2-[(aminoiminomethyl)amino]ethoxy]carbonyl]-6-(4-cyanophenyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]amino]ethyl]methylamino]ethyl]amino]-2-oxoethyl]-4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, 2-[(aminoiminomethyl)amino]ethyl ester, (4R)-(CA INDEX NAME)

Absolute stereochemistry.

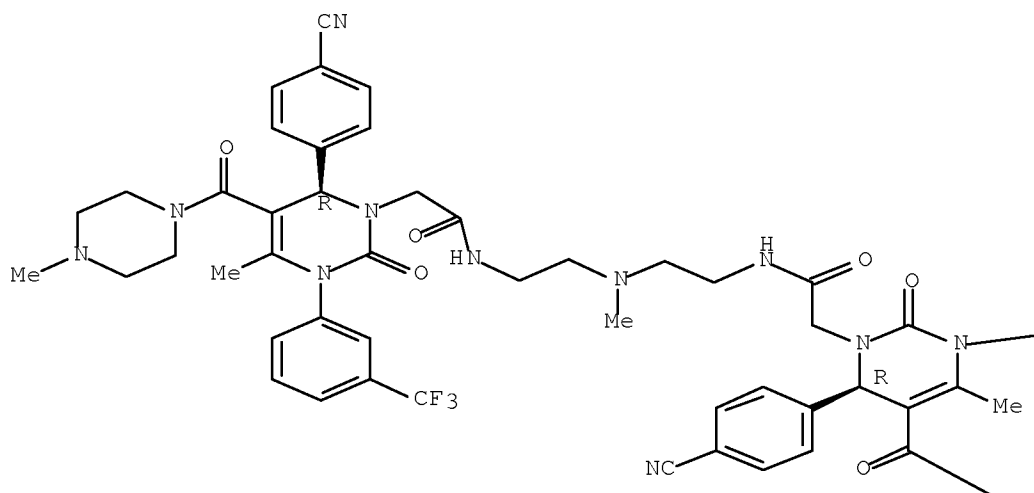




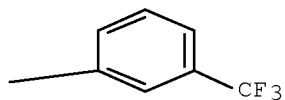
RN 904958-01-6 HCAPLUS

CN 1(2H)-Pyrimidineacetamide, N,N'-[(methylimino)di-2,1-ethanediyl]bis[6-(4-cyanophenyl)-3,6-dihydro-4-methyl-5-[(4-methyl-1-piperazinyl)carbonyl]-2-oxo-3-[3-(trifluoromethyl)phenyl]-, (6R,6'R)- (9CI) (CA INDEX NAME)

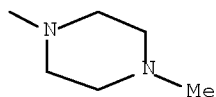
Absolute stereochemistry.



PAGE 1-B



PAGE 2-A

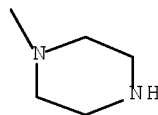
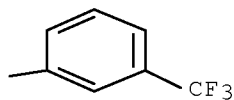
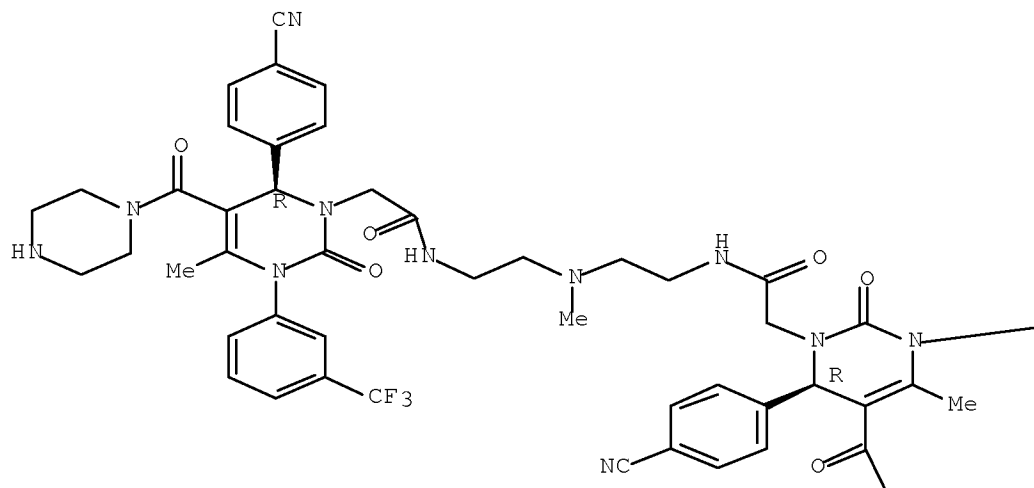


PAGE 2-B

RN 904958-02-7 HCAPLUS

CN 1(2H)-Pyrimidineacetamide, N,N'-[(methyylimino)di-2,1-ethanediyl]bis[6-(4-cyanophenyl)-3,6-dihydro-4-methyl-5-(1-piperazinylcarbonyl)-2-oxo-3-[3-(trifluoromethyl)phenyl]-, (6R,6'R)- (9CI) (CA INDEX NAME)

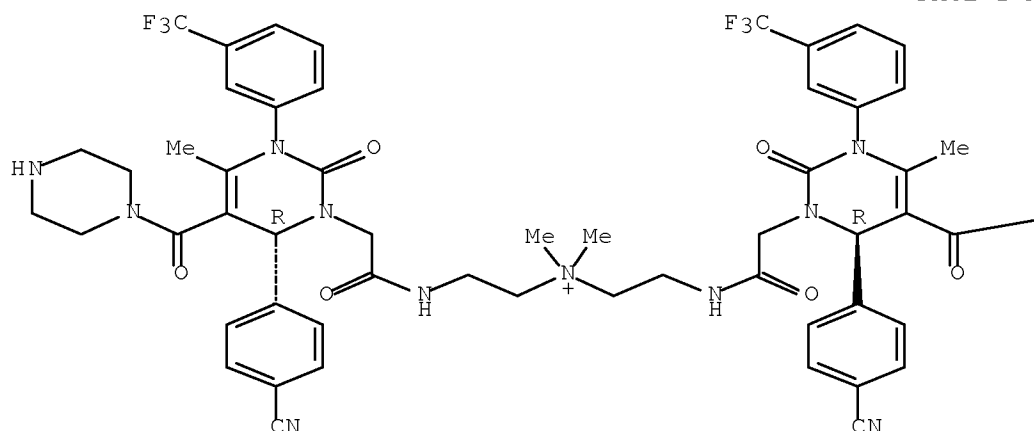
Absolute stereochemistry.



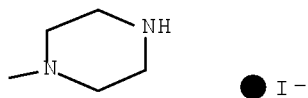
RN 904958-03-8 HCAPLUS  
 CN Ethanaminium, 2-[[2-[(6R)-6-(4-cyanophenyl)-3,6-dihydro-4-methyl-2-oxo-5-(1-piperazinylcarbonyl)-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]amino]-N-[2-[[2-[(6R)-6-(4-cyanophenyl)-3,6-dihydro-4-methyl-2-oxo-5-(1-piperazinylcarbonyl)-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]amino]ethyl]-N,N-dimethyl-, iodide (1:1) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



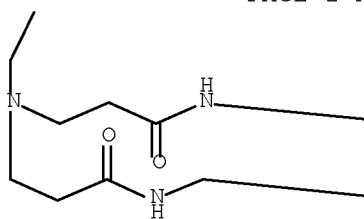
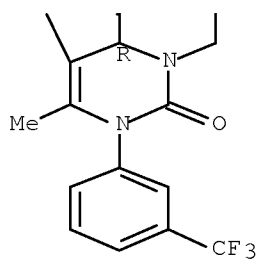
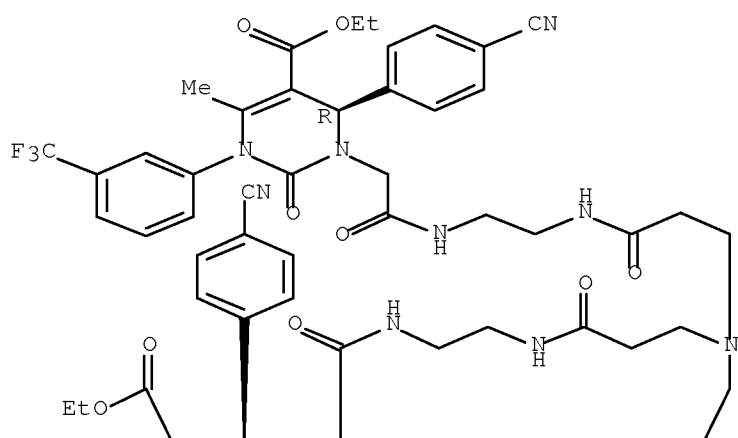
PAGE 1-B



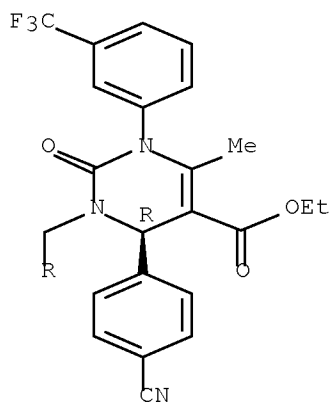
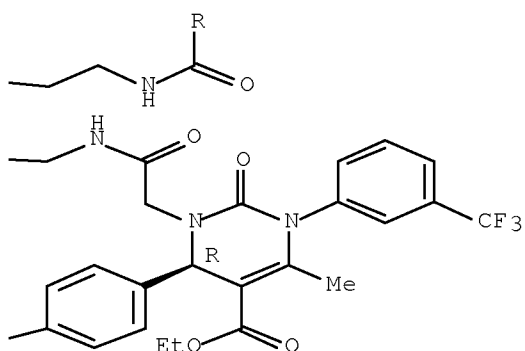
RN 904958-04-9 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-3-[22-[(6R)-6-(4-cyanophenyl)-5-(ethoxycarbonyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]-10,13-bis[3-[2-[2-[(6R)-6-(4-cyanophenyl)-5-(ethoxycarbonyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]amino]ethyl]amino]-3-oxopropyl]-2,7,16,21-tetraoxo-3,6,10,13,17,20-hexaazadocos-1-yl]-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, ethyl ester, (4R)- (CA INDEX NAME)

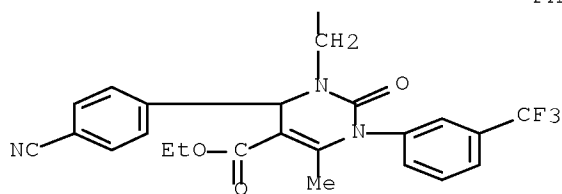
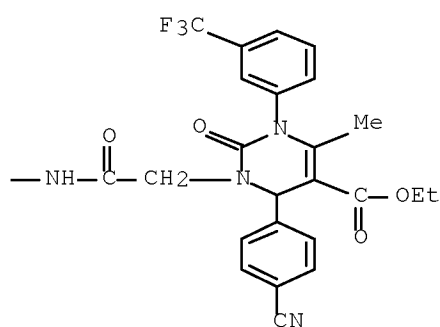
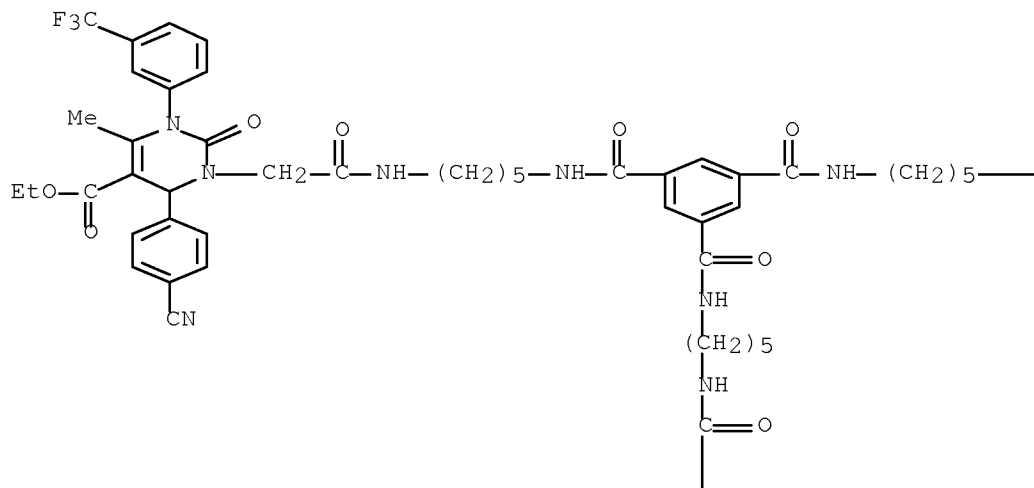
Absolute stereochemistry.



NC

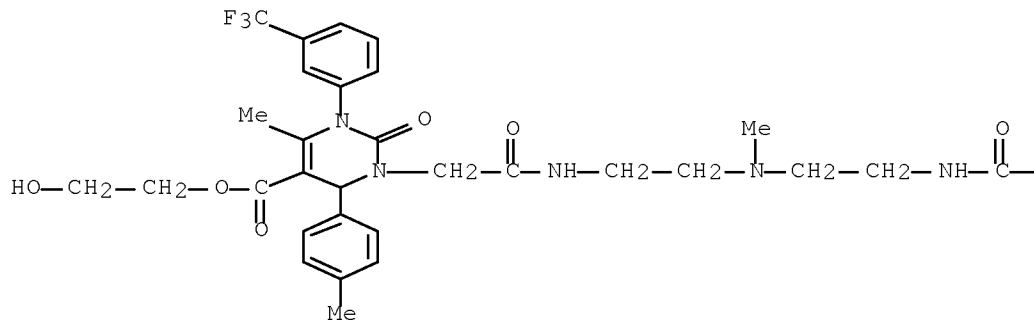


RN 904958-05-0 HCAPLUS  
 CN 5-Pyrimidinecarboxylic acid, 3-[2-[[5-[[3,5-bis[[[5-[[2-[6-(4-cyanophenyl)-5-(ethoxycarbonyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]amino]pentyl]amino]carbo-  
 nyl]benzoyl]amino]pentyl]amino]-2-oxoethyl]-4-(4-cyanophenyl)-1,2,3,4-  
 tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, ethyl ester (CA  
 INDEX NAME)

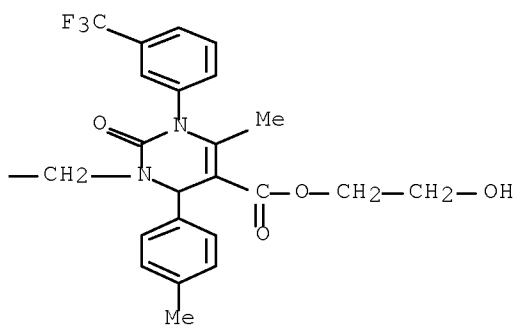


RN	904958-06-1	HCAPLUS
CN	5-Pyrimidinecarboxylic acid, 3-[2-[2-[2-[2-[3,6-dihydro-5-[(2-hydroxyethoxy)carbonyl]-4-methyl-6-(4-methylphenyl)-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]amino]ethyl]methylamino]ethyl]amino]-2-oxoethyl]-1,2,3,4-tetrahydro-6-methyl-4-(4-methylphenyl)-2-oxo-1-[3-(trifluoromethyl)phenyl]-, 2-hydroxyethyl ester (CA INDEX NAME)	

PAGE 1-A



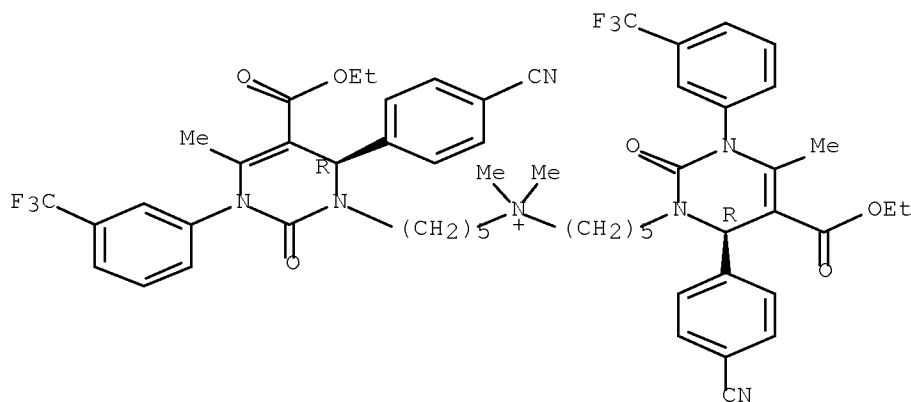
PAGE 1-B



RN 904958-08-3 HCAPLUS

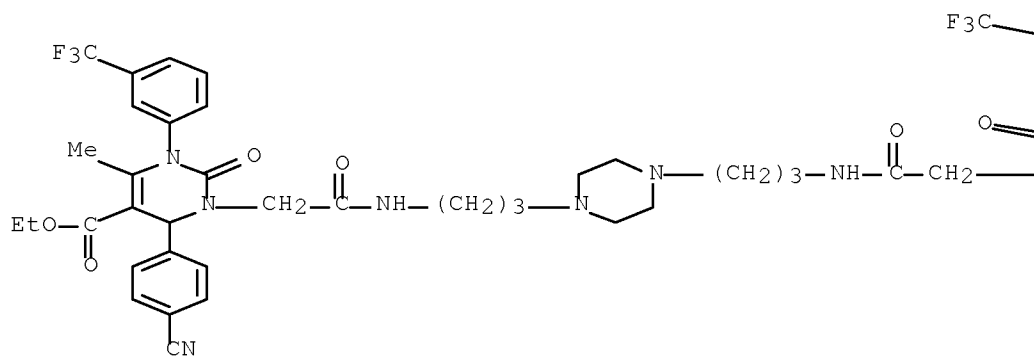
CN 1(2H)-Pyrimidinepentanaminium, 6-(4-cyanophenyl)-N-[5-[(6R)-6-(4-cyanophenyl)-5-(ethoxycarbonyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]pentyl]-5-(ethoxycarbonyl)-3,6-dihydro-N,N,4-trimethyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, iodide (1:1), (6R)- (CA INDEX NAME)

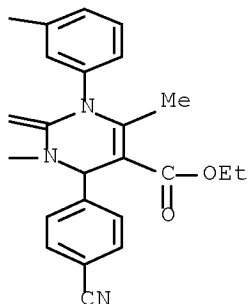
Absolute stereochemistry.



RN 904958-09-4 HCAPLUS

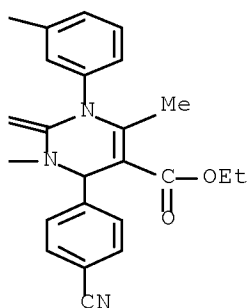
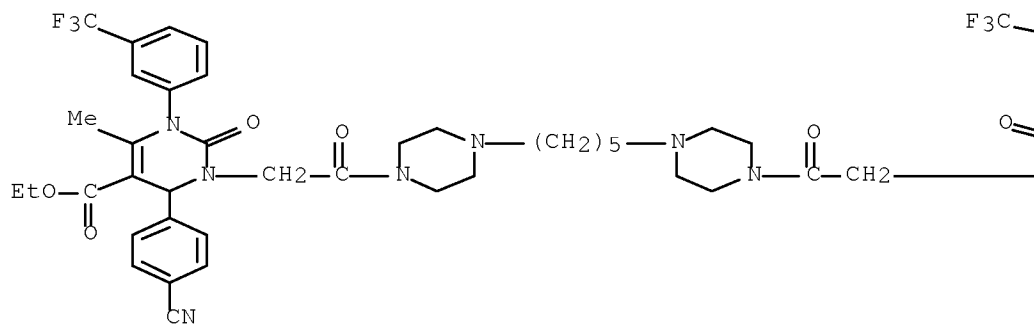
CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-3-[2-[[3-[4-[3-[[2-[6-(4-cyanophenyl)-5-(ethoxycarbonyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]amino]propyl]-1-piperazinyl]propyl]amino]-2-oxoethyl]-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, ethyl ester (CA INDEX NAME)





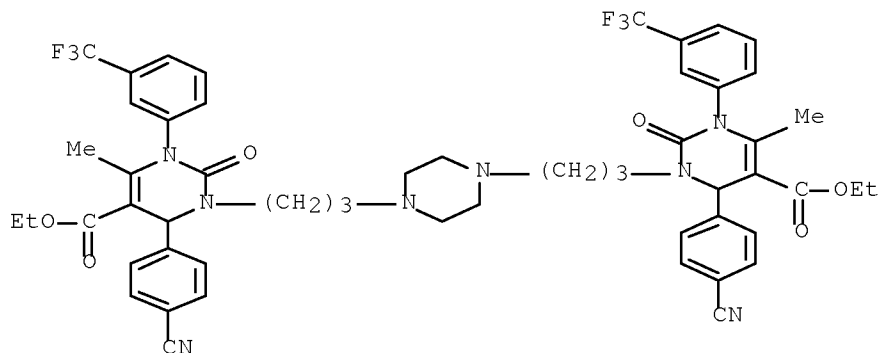
RN 904958-10-7 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-3-[2-[4-[5-[4-[2-[6-(4-cyanophenyl)-5-(ethoxycarbonyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]-1-piperazinyl]pentyl]-1-piperazinyl]-2-oxoethyl]-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, ethyl ester (CA INDEX NAME)



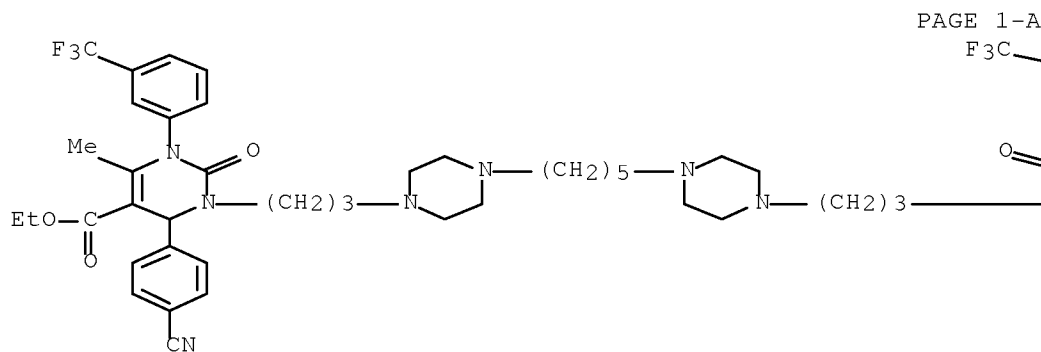
RN 904958-11-8 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1,1'-(1,4-piperazinediyl)di-3,1-propanediyl]bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, diethyl ester (9CI) (CA INDEX NAME)



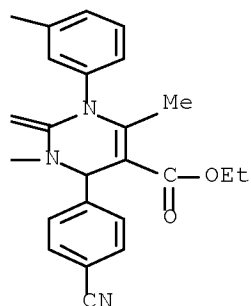
RN 904958-12-9 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1,1'-[1,5-pentanediy]bis(4,1-piperazinediyl-3,1-propanediyl)]bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, diethyl ester (9CI) (CA INDEX NAME)



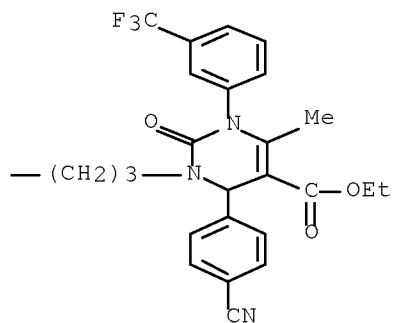
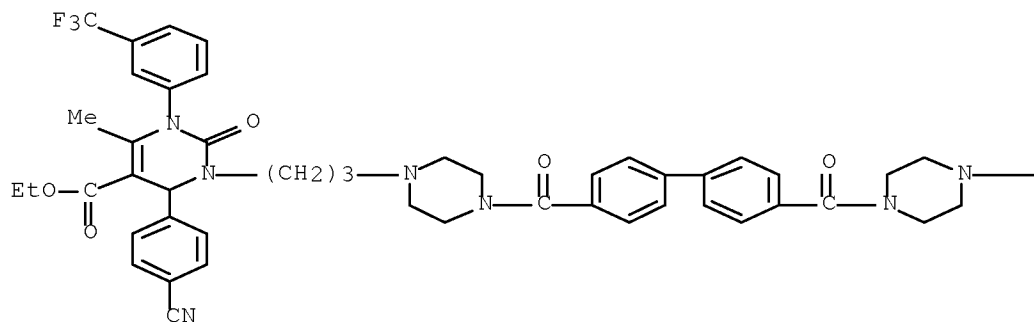
PAGE 1-A

F<sub>3</sub>C



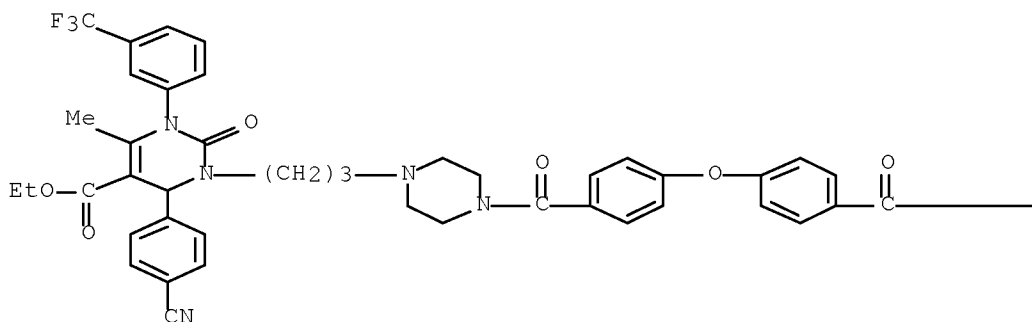
RN 904958-13-0 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1,1'-[[1,1'-biphenyl]-4,4'-diylbis(carbonyl-4,1-piperazinediyl-3,1-propanediyl)]bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, diethyl ester (9CI) (CA INDEX NAME)

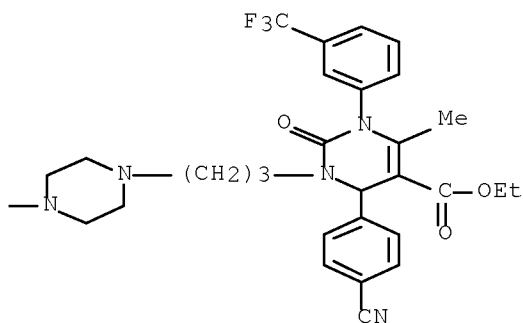


RN 904958-14-1 HCAPLUS  
 CN 5-Pyrimidinecarboxylic acid, 1,1'-[oxybis(4,1-phenylenecarbonyl-4,1-piperazinediyl-3,1-propanediyl)]bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, diethyl ester (9CI) (CA INDEX NAME)

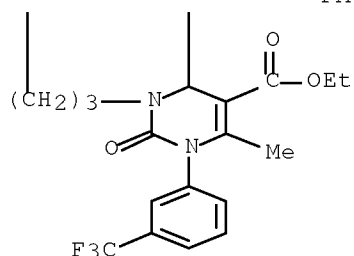
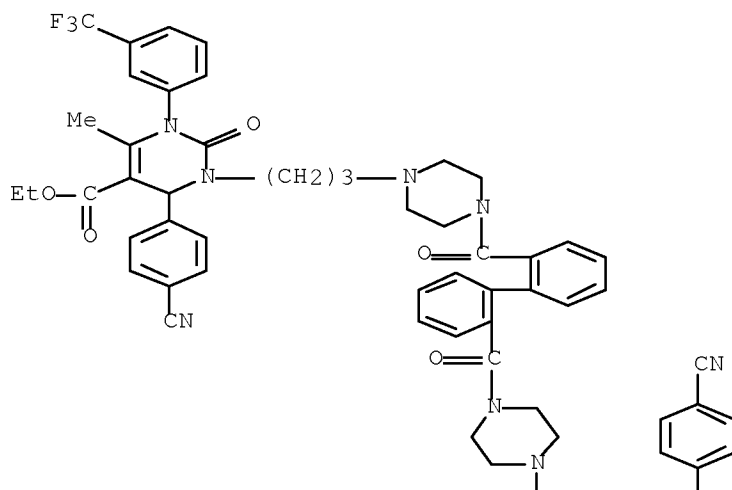
PAGE 1-A



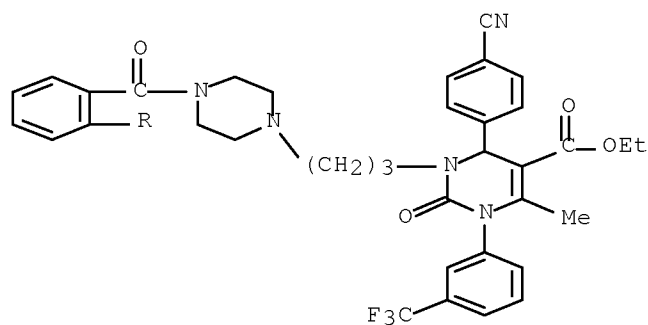
PAGE 1-B



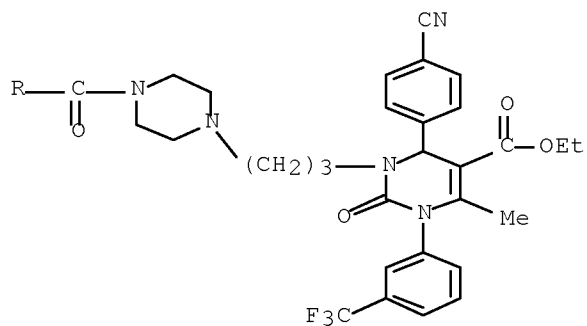
RN 904958-15-2 HCAPLUS  
 CN 5-Pyrimidinecarboxylic acid, 1,1'-[[1,1'-biphenyl]-2,2'-diylbis(carbonyl-4,1-piperazinediyl-3,1-propanediyl)]bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, diethyl ester (9CI) (CA INDEX NAME)



RN 904958-16-3 HCAPLUS  
 CN 5-Pyrimidinecarboxylic acid, 1,1'-[1,2-phenylenebis(carbonyl-4,1-piperazinediyl-3,1-propanediyl)]bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, diethyl ester (9CI) (CA INDEX NAME)

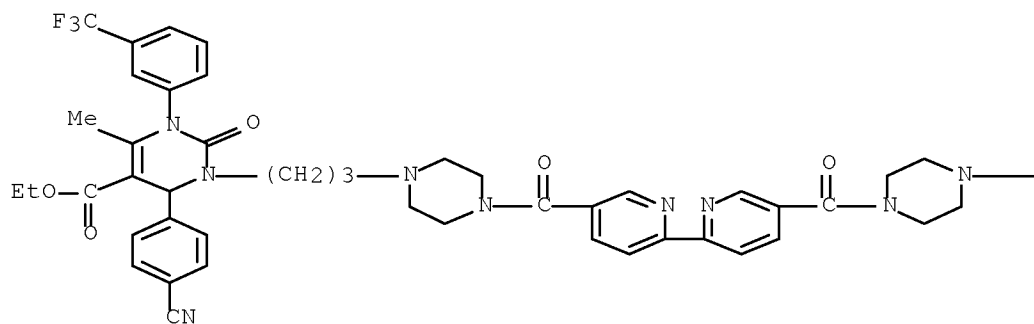


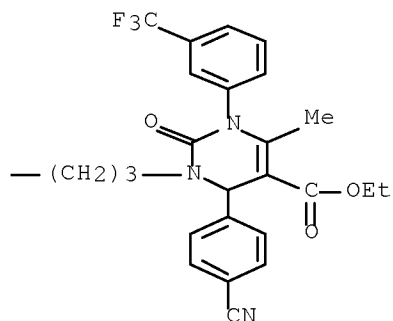
PAGE 2-A



RN 904958-17-4 HCAPLUS  
 CN 5-Pyrimidinecarboxylic acid, 1,1'-[[2,2'-bipyridin]-5,5'-diylbis(carbonyl-4,1-piperazinediyl-3,1-propanediyl)]bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, diethyl ester (9CI) (CA INDEX NAME)

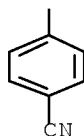
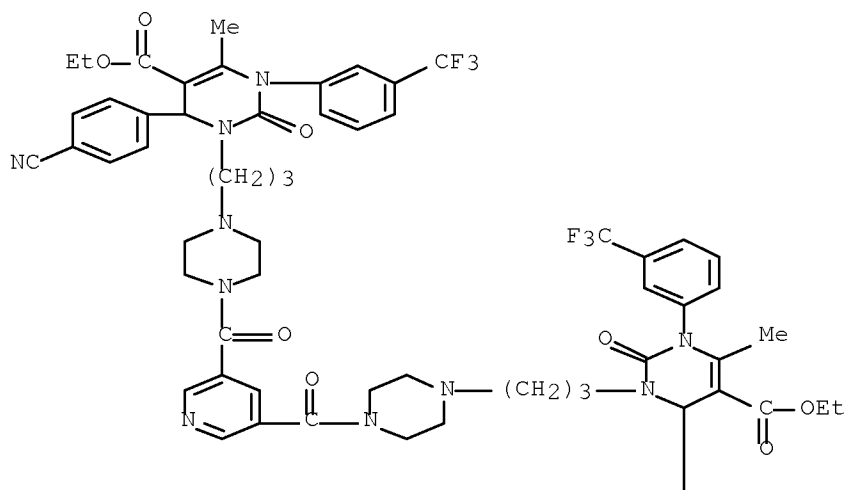
PAGE 1-A





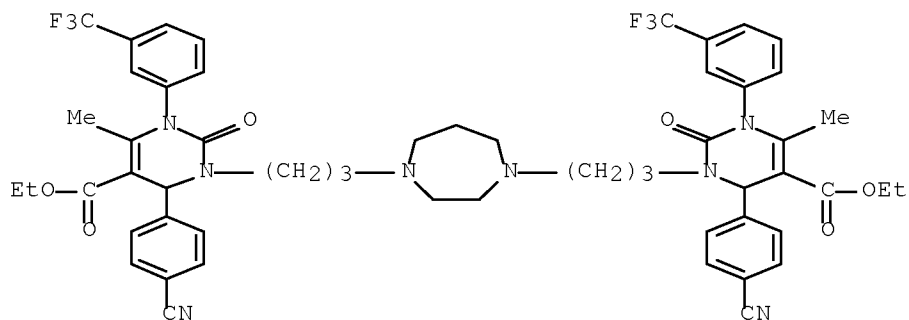
RN 904958-18-5 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1,1'-[3,5-pyridinediylbis(carbonyl-4,1-piperazinediyl-3,1-propanediyl)]bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, diethyl ester (9CI) (CA INDEX NAME)



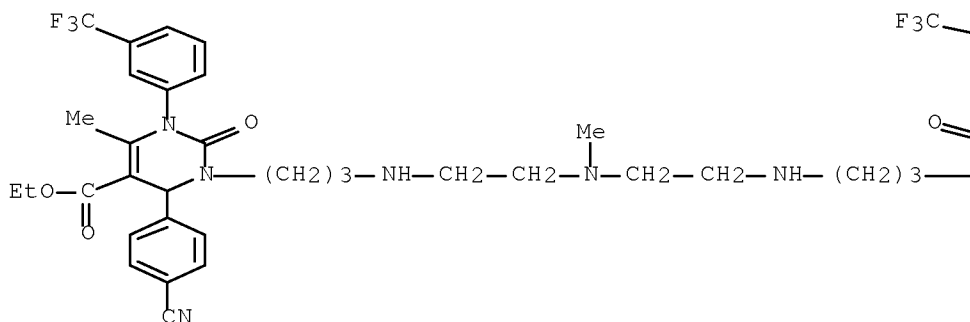
RN 904958-19-6 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1,1'-[(tetrahydro-1H-1,4-diazepine-1,4(5H)-diyl)di-3,1-propanediyl]bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, diethyl ester (9CI) (CA INDEX NAME)



RN 904958-20-9 HCAPLUS

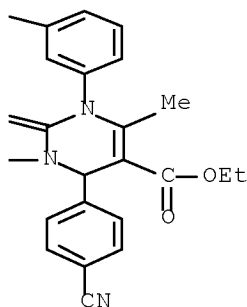
CN 5-Pyrimidinecarboxylic acid, 1,1'-[(methylimino)bis(2,1-ethanediylimino-3,1-propanediyl)]bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, diethyl ester (9CI) (CA INDEX NAME)



PAGE 1-A

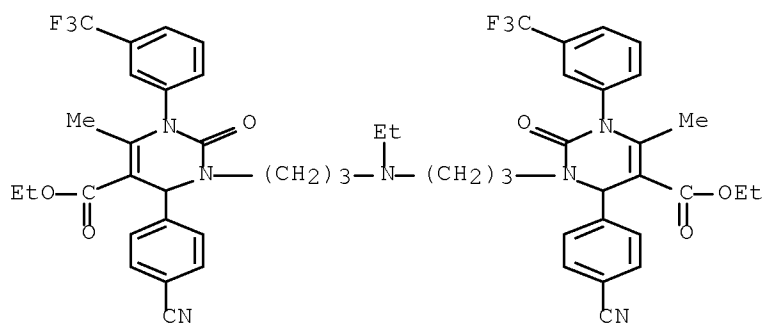
F<sub>3</sub>C

PAGE 1-B



RN 904958-21-0 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1,1'-[(ethylimino)di-2,1-ethanediyl]bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, diethyl ester (9CI) (CA INDEX NAME)

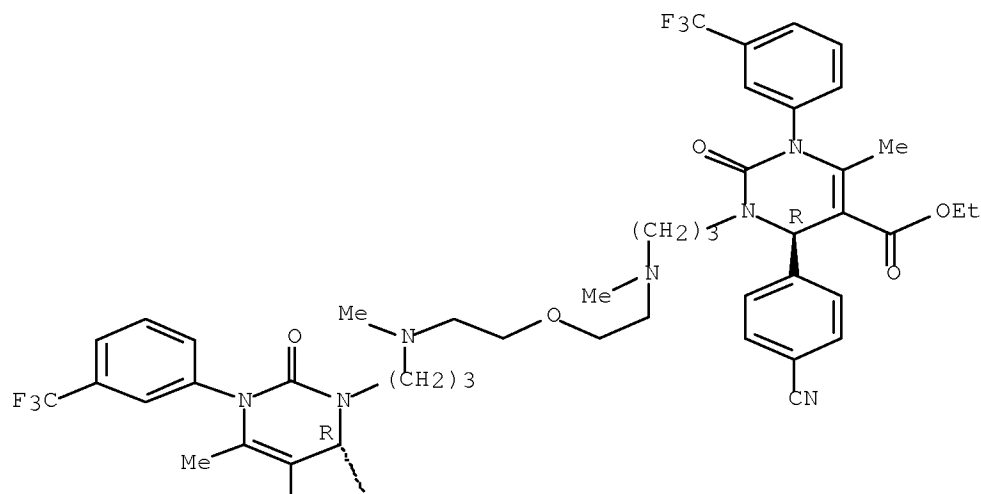


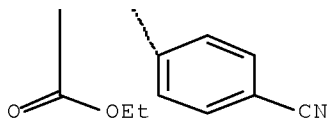
RN 904958-22-1 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1,1'-[oxybis[2,1-ethanediyl(methylimino)-3,1-propanediyl]]bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, diethyl ester, (6R,6'R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

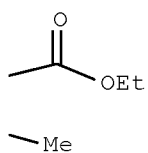
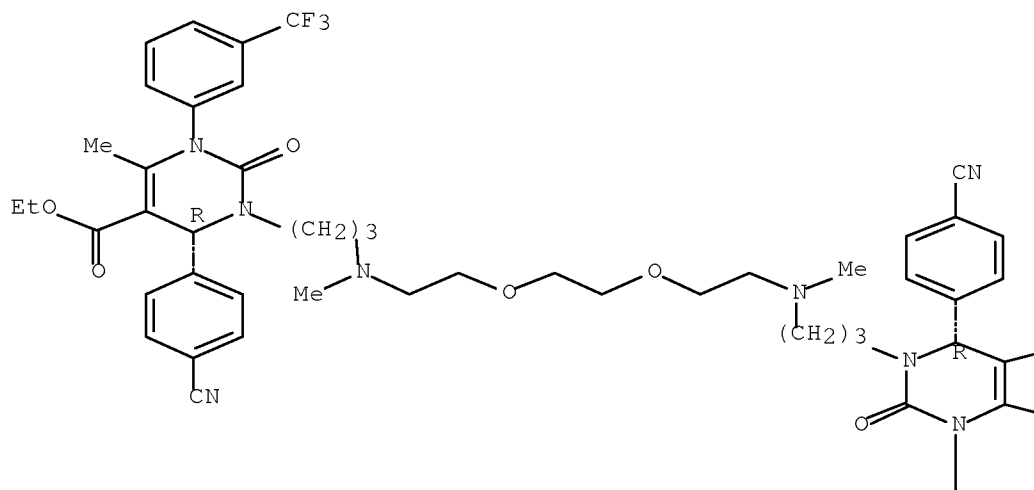


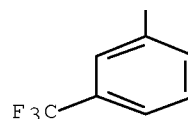


RN 904958-23-2 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1,1'-(4,13-dimethyl-7,10-dioxo-4,13-diazahexadecane-1,16-diyl)bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, diethyl ester, (6R,6'R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

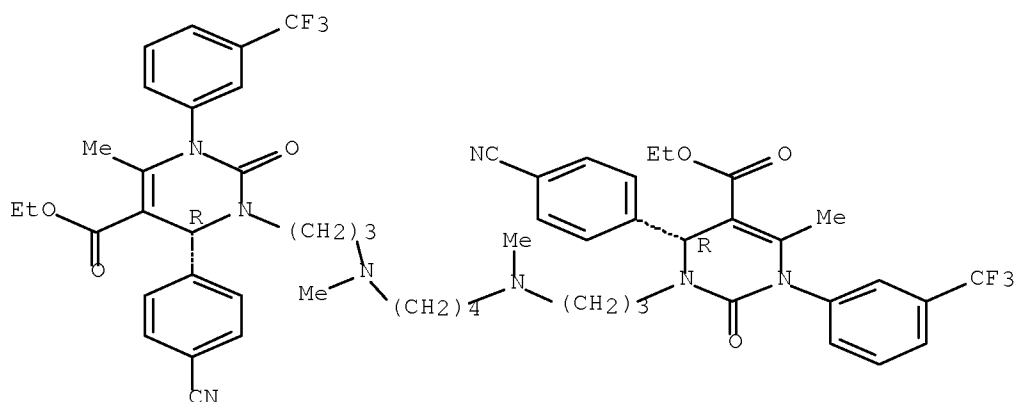




RN 904958-24-3 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1,1'-[1,4-butanediylbis[(methylimino)-3,1-propanediyl]]bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, diethyl ester (9CI) (CA INDEX NAME)

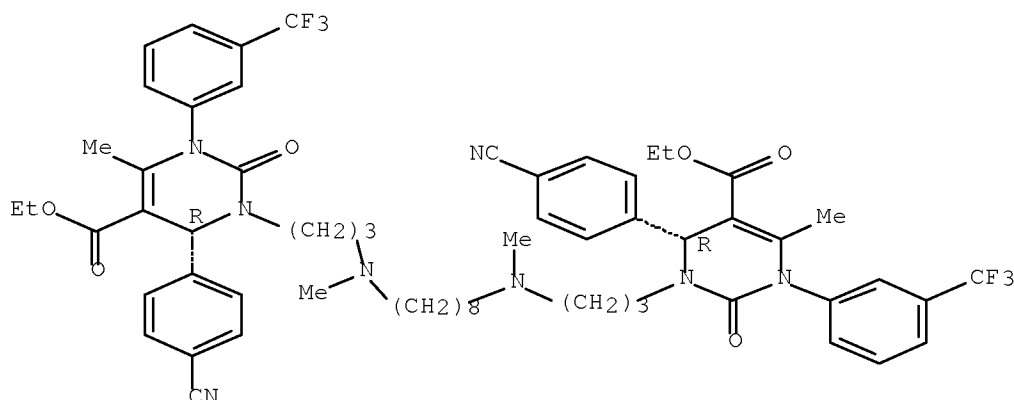
Absolute stereochemistry.



RN 904958-25-4 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1,1'-[1,8-octanediylbis[(methylimino)-3,1-propanediyl]]bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, diethyl ester (9CI) (CA INDEX NAME)

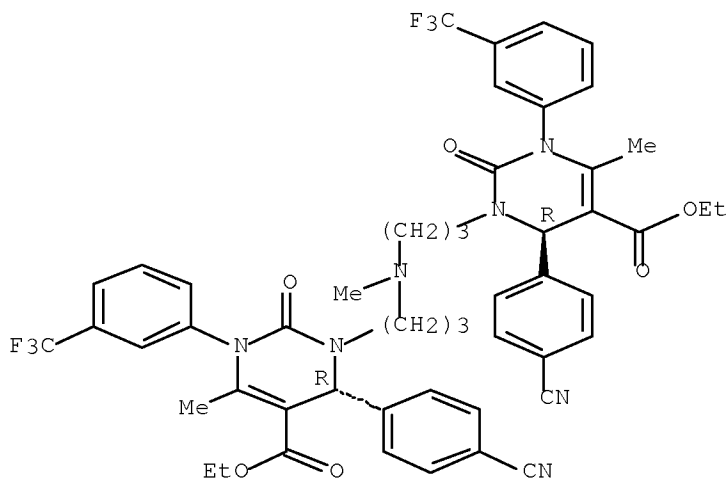
Absolute stereochemistry.



RN 904958-26-5 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1,1'-[(methylimino)di-2,1-ethanediyl]bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, diethyl ester, (6R,6'R)- (9CI) (CA INDEX NAME)

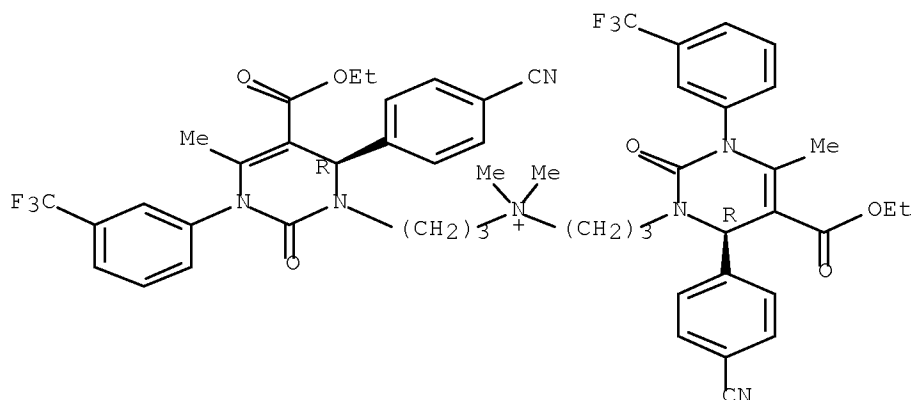
Absolute stereochemistry.



RN 904958-27-6 HCAPLUS

CN 1(2H)-Pyrimidinepropanaminium, 6-(4-cyanophenyl)-N-[3-[ (6R)-6-(4-cyanophenyl)-5-(ethoxycarbonyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]propyl]-5-(ethoxycarbonyl)-3,6-dihydro-N,N,4-trimethyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, iodide (1:1), (6R)- (CA INDEX NAME)

Absolute stereochemistry.



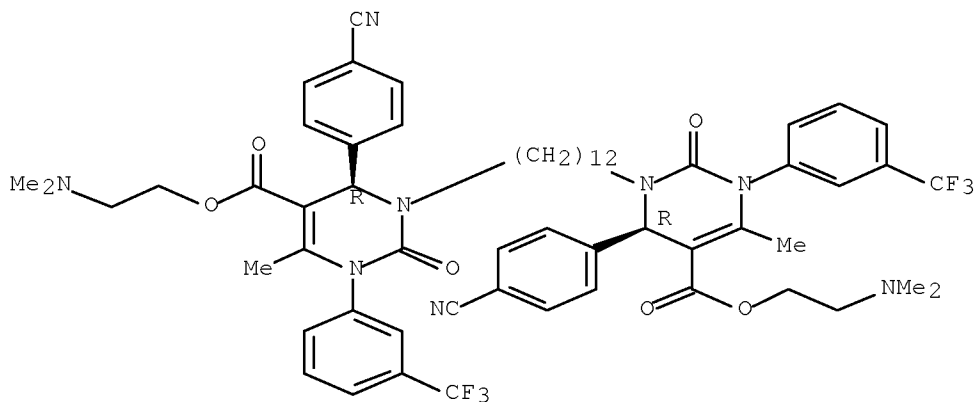
PAGE 1-A



RN 904958-28-7 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1,1'-(1,12-dodecanediyl)bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, bis[2-(dimethylamino)ethyl] ester, (6R,6'R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 904958-30-1 HCAPLUS

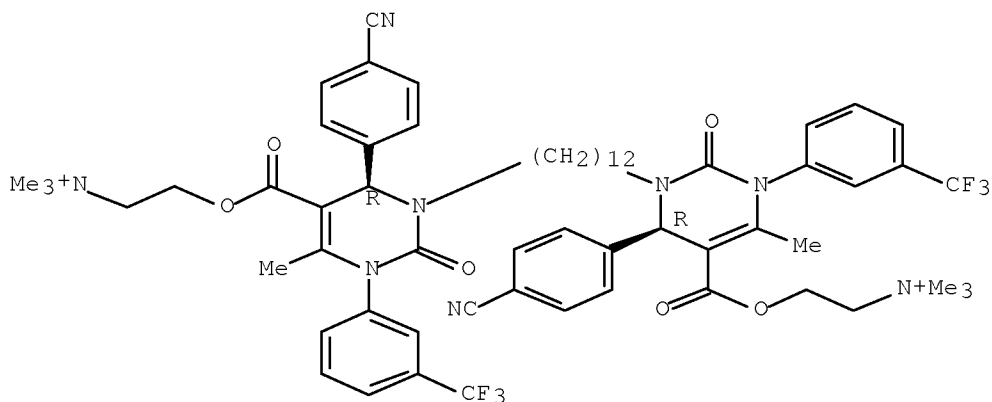
CN Ethanaminium, 2-[[[(4R)-4-(4-cyanophenyl)-3-[12-[(6R)-6-(4-cyanophenyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-5-[[2-(trimethylammonio)ethoxy]carbonyl]-1(2H)-pyrimidinyl]dodecyl]-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-5-pyrimidinyl]carbonyl]oxy]-N,N,N-trimethyl-, formate (1:2) (CA INDEX NAME)

CM 1

CRN 904958-29-8

CMF C62 H74 F6 N8 O6

Absolute stereochemistry.



CM 2

CRN 71-47-6

CMF C H O2

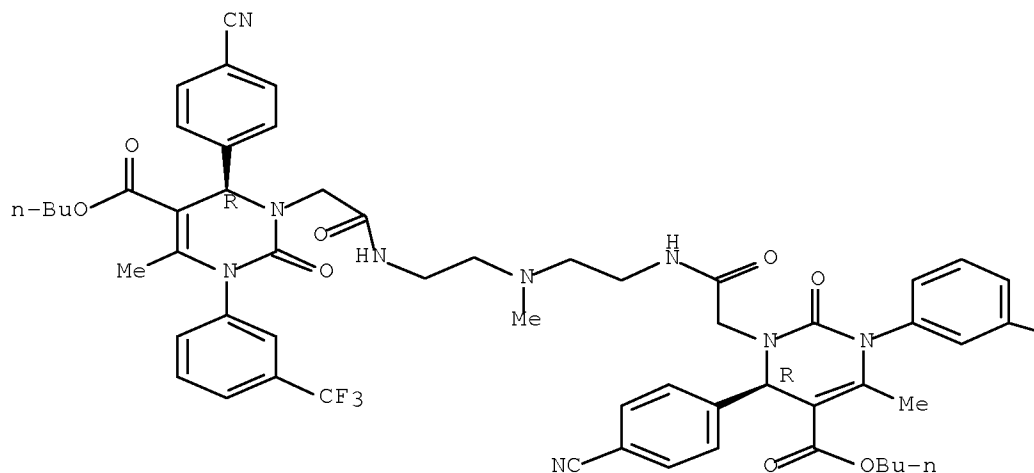


RN 904958-31-2 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 3-[2-[[2-[[2-[[2-[(6R)-5-(butoxycarbonyl)-6-(4-cyanophenyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]amino]ethyl]methylamino]ethyl]amino]-2-oxoethyl]-4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, butyl ester, (4R)- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



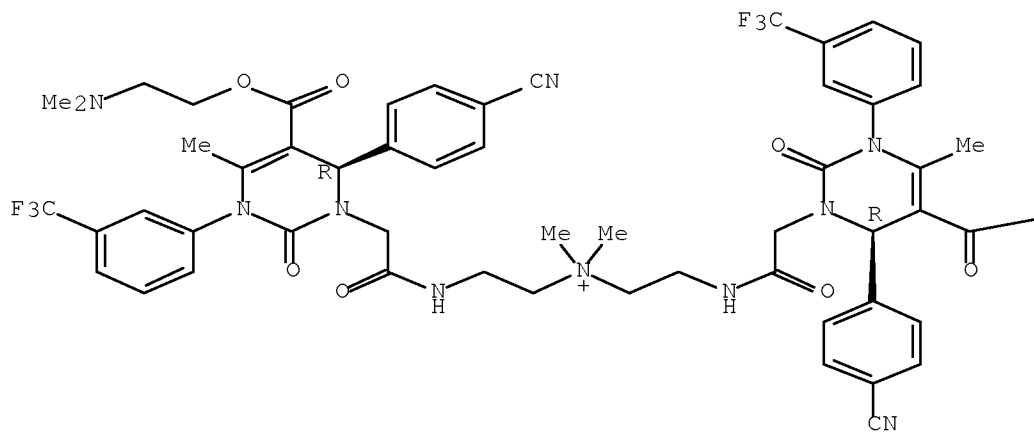


RN 904958-32-3 HCAPLUS

CN Ethanaminium, 2-[[2-[(6R)-6-(4-cyanophenyl)-5-[[2-(dimethylamino)ethoxy]carbonyl]-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]amino]-N-[2-[[2-[(6R)-6-(4-cyanophenyl)-5-[[2-(dimethylamino)ethoxy]carbonyl]-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]amino]ethyl]-N,N-dimethyl-, iodide (1:1) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



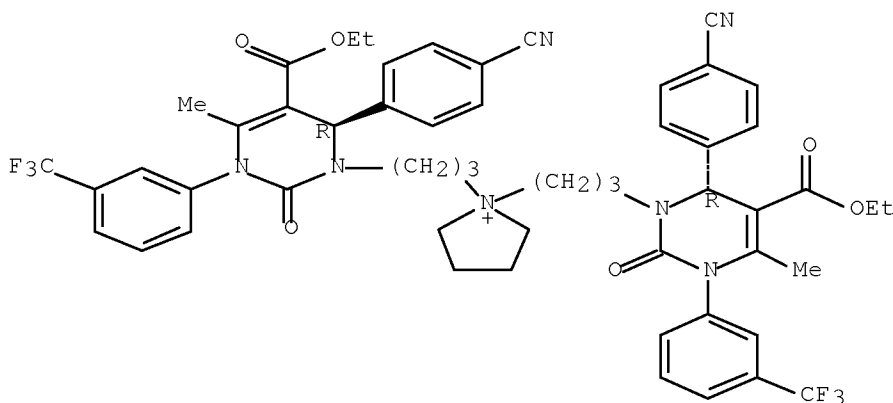
PAGE 1-B



RN 904958-33-4 HCAPLUS  
 CN Pyrrolidinium, 1,1-bis[3-[(6R)-6-(4-cyanophenyl)-5-(ethoxycarbonyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]propyl]-, bromide (1:1) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



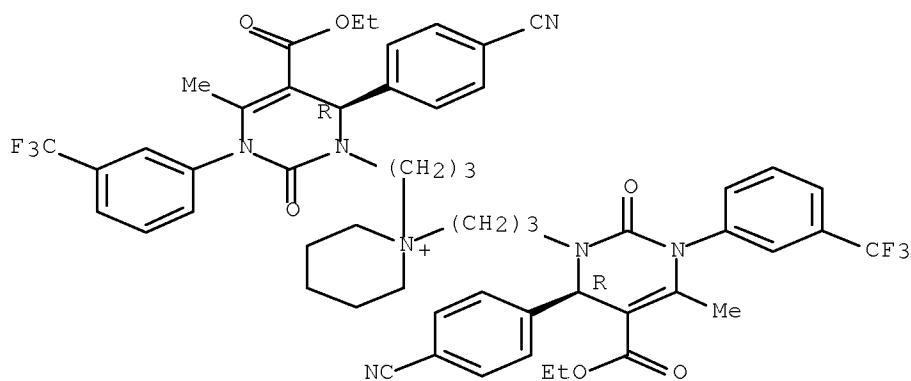
PAGE 2-A



RN 904958-34-5 HCAPLUS  
 CN Piperidinium, 1,1-bis[3-[(6R)-6-(4-cyanophenyl)-5-(ethoxycarbonyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]propyl]-, bromide (1:1) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

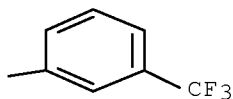
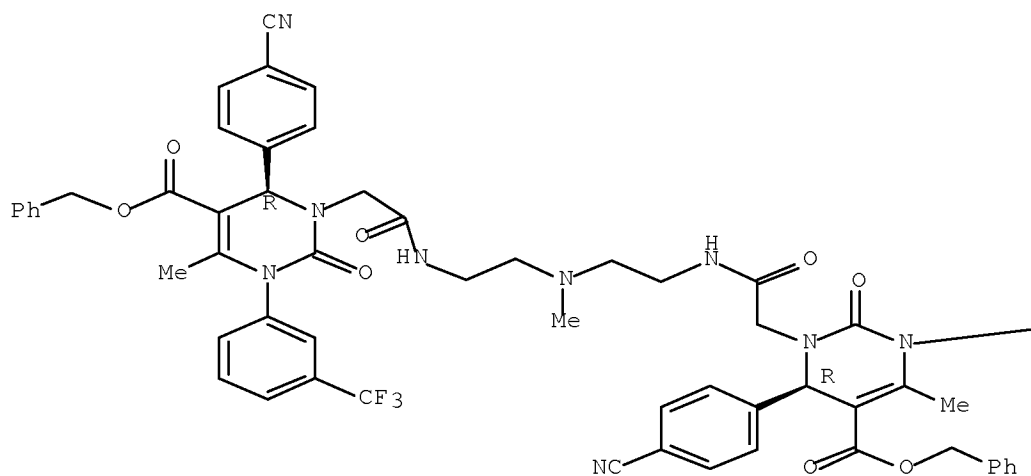




RN 904958-37-8 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-3-[2-[[2-[[2-[[2-[(6R)-6-(4-cyanophenyl)-3,6-dihydro-4-methyl-2-oxo-5-[(phenylmethoxy)carbonyl]-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]amino]ethyl]methylamino]ethyl]amino]-2-oxoethyl]-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, phenylmethyl ester, (4R)- (CA INDEX NAME)

Absolute stereochemistry.



RN 904958-39-0 HCAPLUS

CN Ethanaminium, 2-[[2-[(6R)-6-(4-cyanophenyl)-3,6-dihydro-4-methyl-2-oxo-5-

Serial No.:10/590,786

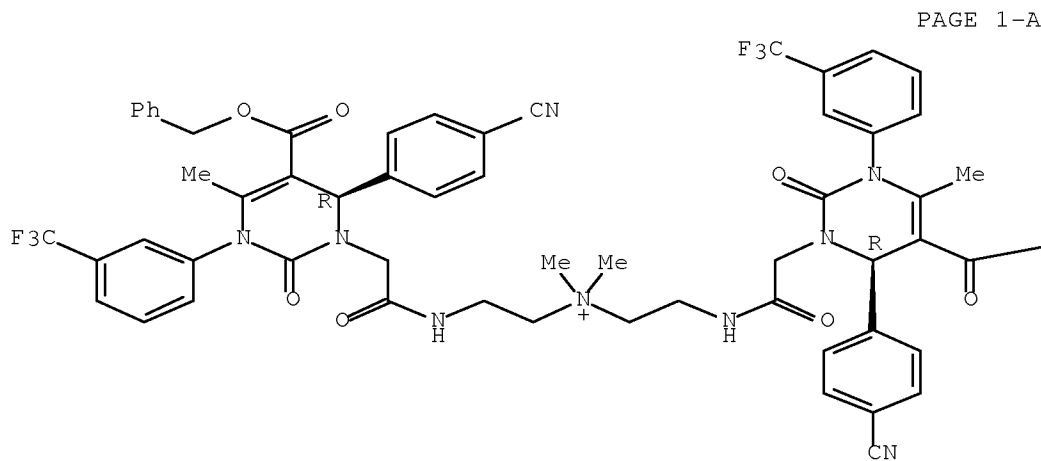
[(phenylmethoxy)carbonyl]-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]amino]-N-[2-[[2-[(6R)-6-(4-cyanophenyl)-3,6-dihydro-4-methyl-2-oxo-5-[(phenylmethoxy)carbonyl]-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]amino]ethyl]-N,N-dimethyl-, formate (1:1) (CA INDEX NAME)

CM 1

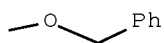
CRN 904958-38-9

CMF C64 H58 F6 N9 O8

Absolute stereochemistry.



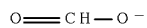
PAGE 1-B



CM 2

CRN 71-47-6

CMF C H O2



RN 904958-41-4 HCAPLUS

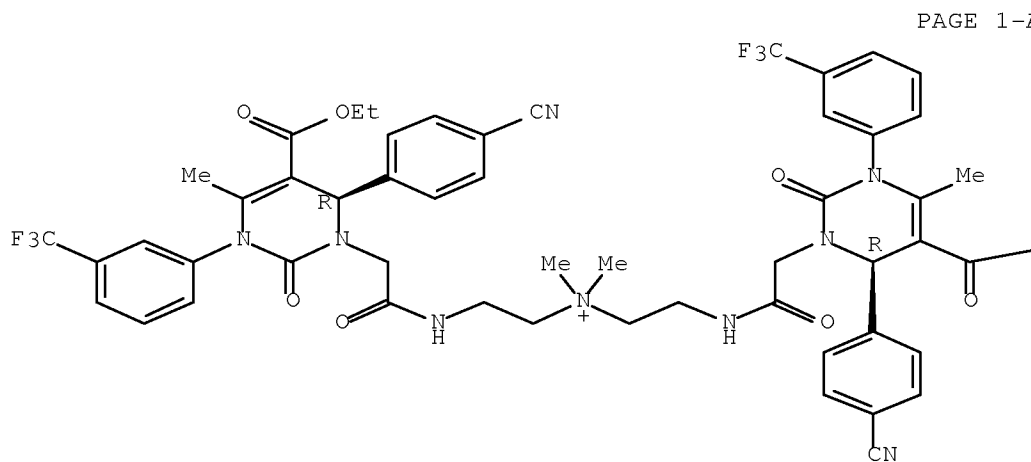
CN Ethanaminium, 2-[[[(6R)-6-(4-cyanophenyl)-5-(ethoxycarbonyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]amino]-N-[2-[[[(6R)-6-(4-cyanophenyl)-5-(ethoxycarbonyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]amino]ethyl]-N,N-dimethyl-, butanedioate (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 904958-40-3

CMF C54 H54 F6 N9 O8

Absolute stereochemistry.



PAGE 1-B

—OEt

CM 2

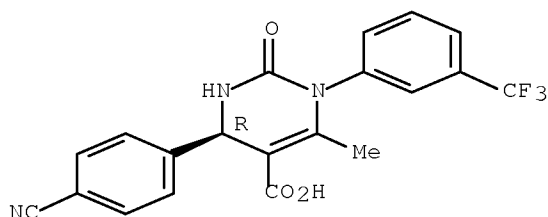
CRN 56-14-4

CMF C4 H4 O4

—O<sub>2</sub>C—CH<sub>2</sub>—CH<sub>2</sub>—CO<sub>2</sub>—

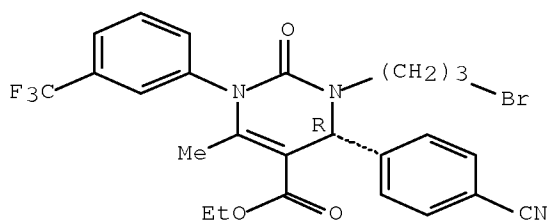
IT 864228-16-0P 904958-45-8P  
 RL: PUR (Purification or recovery); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (intermediate; preparation of multimers of tetrahydropyrimidinone compds.  
 as elastase inhibitors useful in the treatment of respiratory diseases)  
 RN 864228-16-0 HCAPLUS  
 CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, (4R)- (CA INDEX NAME)

Absolute stereochemistry.



RN 904958-45-8 HCAPLUS  
 CN 5-Pyrimidinecarboxylic acid, 3-(3-bromopropyl)-4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, ethyl ester, (4R)- (CA INDEX NAME)

Absolute stereochemistry.



IT 864151-33-7P 904958-42-5P 904958-43-6P  
 904958-44-7P 904958-46-9P 904958-47-0P  
 904958-48-1P 904958-49-2P 904958-50-5P  
 904958-51-6P 904958-52-7P 904958-53-8P  
 904958-54-9P 904958-55-0P 904958-56-1P  
 904958-57-2P 904958-58-3P 904958-59-4P  
 904958-60-7P 904958-61-8P 904958-62-9P  
 904958-63-0P 904958-64-1P 904958-65-2P  
 904958-66-3P 904958-67-4P 904958-68-5P  
 904958-69-6P 904958-70-9P 904958-71-0P  
 904958-72-1P 904958-73-2P 904958-74-3P  
 904958-75-4P 904958-76-5P 904958-77-6P  
 904958-78-7P 904958-79-8P 904958-80-1P

Serial No.:10/590,786

904958-81-2P 904958-83-4P 904958-97-0P  
 904958-98-1P 904958-99-2P 904959-00-8P  
 904959-01-9P 904959-02-0P 904959-03-1P  
 904959-04-2P 904959-05-3P 904959-07-5P  
 904959-08-6P 904959-16-6P 905287-66-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (intermediate; preparation of multimers of tetrahydropyrimidinone compds.

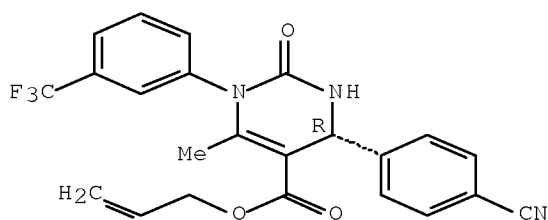
as

elastase inhibitors useful in the treatment of respiratory diseases)

RN 864151-33-7 HCAPLUS

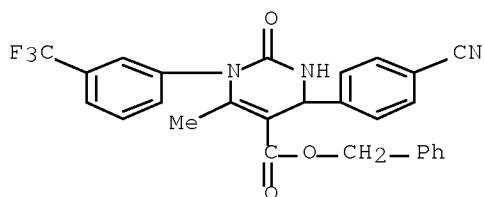
CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-  
 2-oxo-1-[3-(trifluoromethyl)phenyl]-, 2-propen-1-yl ester, (4R)- (CA  
 INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 904958-42-5 HCAPLUS

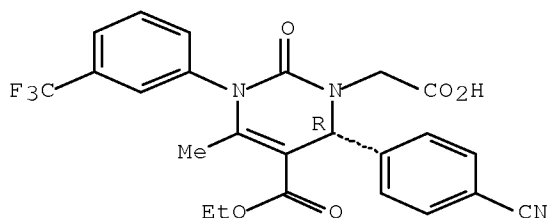
CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-  
 2-oxo-1-[3-(trifluoromethyl)phenyl]-, phenylmethyl ester (CA INDEX NAME)



RN 904958-43-6 HCAPLUS

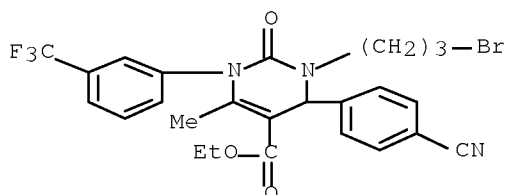
CN 1(2H)-Pyrimidineacetic acid, 6-(4-cyanophenyl)-5-(ethoxycarbonyl)-3,6-  
 dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, (6R)- (CA INDEX  
 NAME)

Absolute stereochemistry.



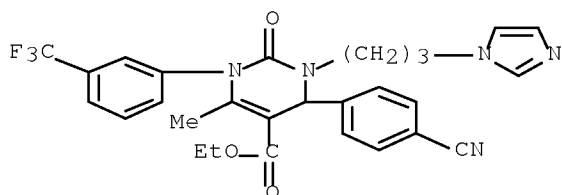
RN 904958-44-7 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 3-(3-bromopropyl)-4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, ethyl ester (CA INDEX NAME)



RN 904958-46-9 HCAPLUS

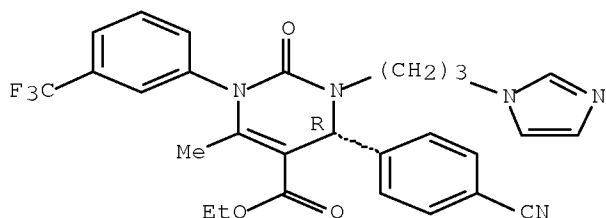
CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-1,2,3,4-tetrahydro-3-[3-(1H-imidazol-1-yl)propyl]-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, ethyl ester (CA INDEX NAME)



RN 904958-47-0 HCAPLUS

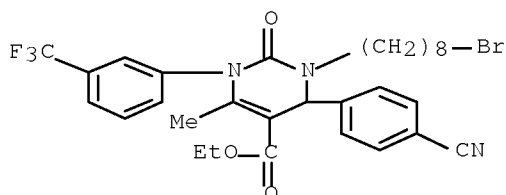
CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-1,2,3,4-tetrahydro-3-[3-(1H-imidazol-1-yl)propyl]-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, ethyl ester, (4R)- (CA INDEX NAME)

Absolute stereochemistry.



RN 904958-48-1 HCAPLUS

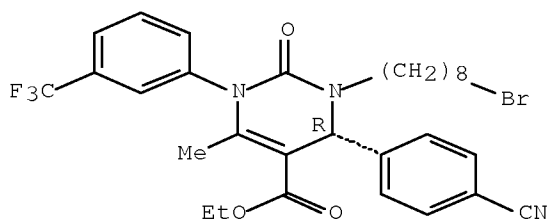
CN 5-Pyrimidinecarboxylic acid, 3-(8-bromooctyl)-4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, ethyl ester (CA INDEX NAME)



RN 904958-49-2 HCAPLUS

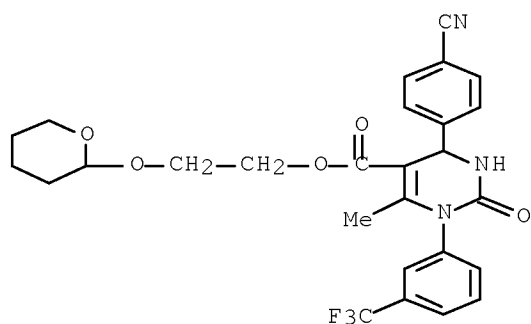
CN 5-Pyrimidinecarboxylic acid, 3-(8-bromooctyl)-4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, ethyl ester, (4R)- (CA INDEX NAME)

Absolute stereochemistry.



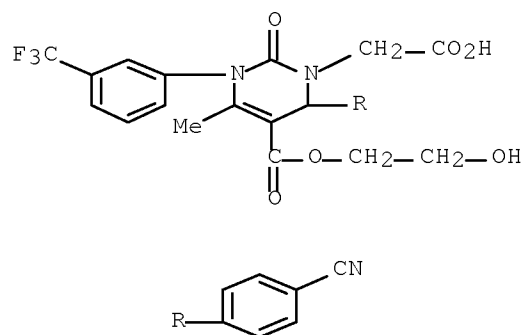
RN 904958-50-5 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, 2-[(tetrahydro-2H-pyran-2-yl)oxy]ethyl ester (CA INDEX NAME)



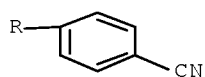
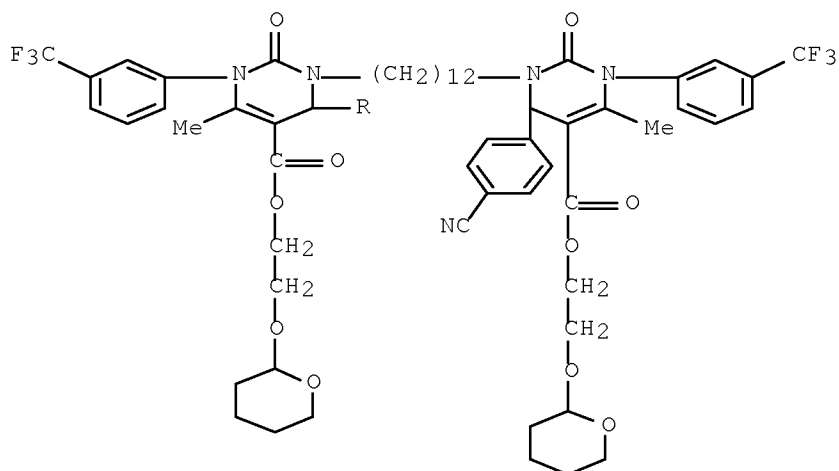
RN 904958-51-6 HCAPLUS

CN 1(2H)-Pyrimidineacetic acid, 6-(4-cyanophenyl)-3,6-dihydro-5-[(2-hydroxyethoxy)carbonyl]-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)

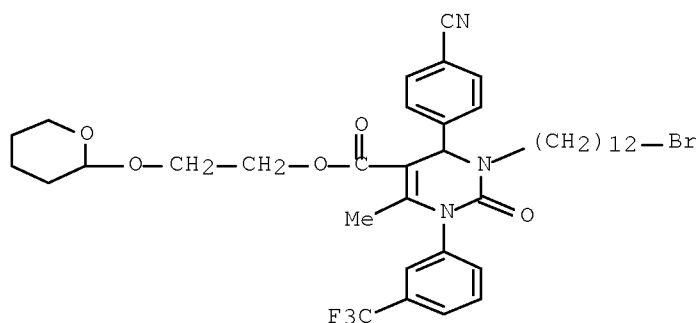


RN 904958-52-7 HCAPLUS

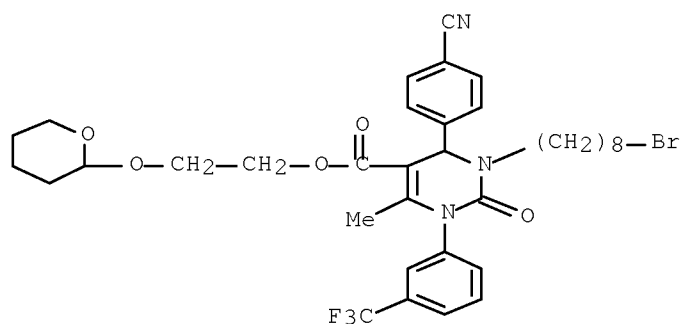
CN 5-Pyrimidinecarboxylic acid, 1,1'-(1,12-dodecanediyl)bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, bis[2-[(tetrahydro-2H-pyran-2-yl)oxy]ethyl] ester (9CI) (CA INDEX NAME)



RN 904958-53-8 HCAPLUS  
 CN 5-Pyrimidinecarboxylic acid, 3-(12-bromododecyl)-4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, 2-[(tetrahydro-2H-pyran-2-yl)oxy]ethyl ester (CA INDEX NAME)

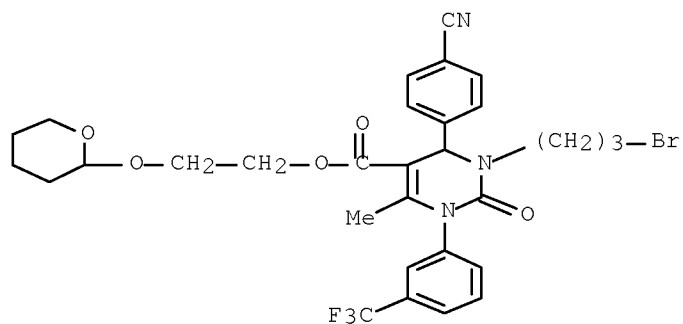


RN 904958-54-9 HCAPLUS  
 CN 5-Pyrimidinecarboxylic acid, 3-(8-bromooctyl)-4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, 2-[(tetrahydro-2H-pyran-2-yl)oxy]ethyl ester (CA INDEX NAME)



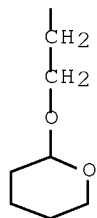
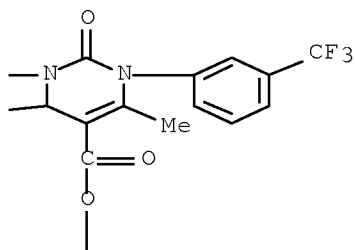
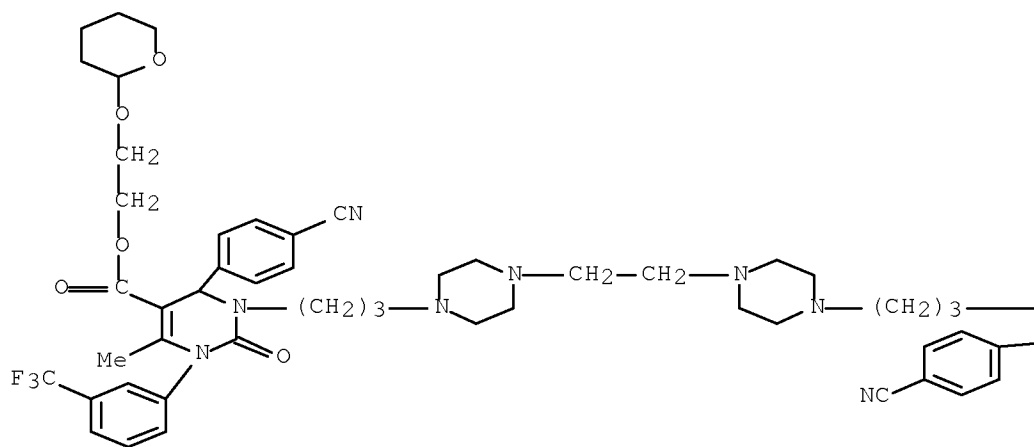
RN 904958-55-0 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 3-(3-bromopropyl)-4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, 2-[(tetrahydro-2H-pyran-2-yl)oxy]ethyl ester (CA INDEX NAME)



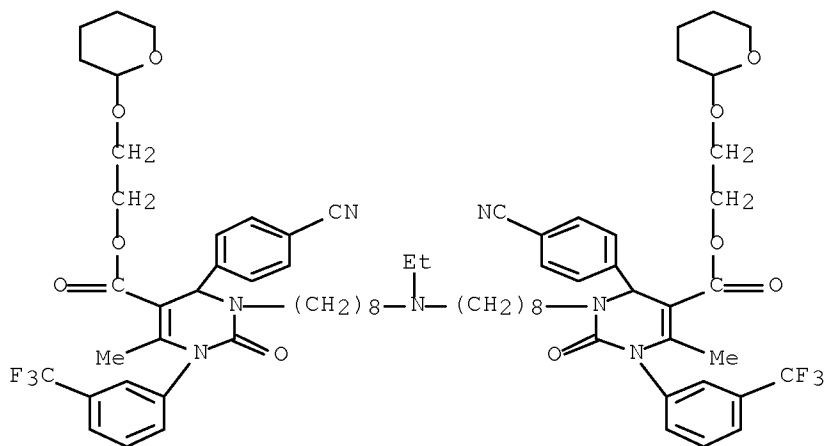
RN 904958-56-1 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1,1'-[1,2-ethanediylbis(4,1-piperazinediyl-3,1-propanediyl)]bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, bis[2-[(tetrahydro-2H-pyran-2-yl)oxy]ethyl] ester (9CI) (CA INDEX NAME)



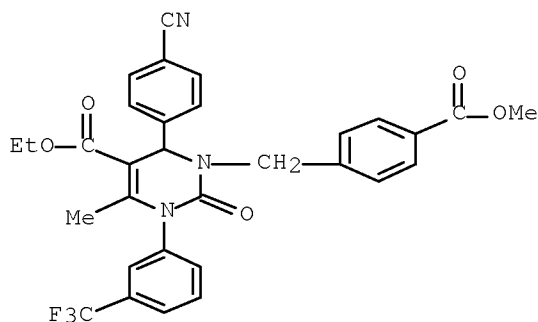
RN 904958-57-2 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1,1'-[(ethylimino)di-8,1-octanediyl]bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, bis[2-[(tetrahydro-2H-pyran-2-yl)oxy]ethyl] ester (9CI) (CA INDEX NAME)



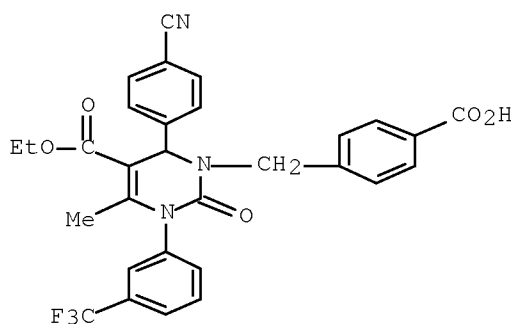
RN 904958-58-3 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-1,2,3,4-tetrahydro-3-[[4-(methoxycarbonyl)phenyl]methyl]-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, ethyl ester (CA INDEX NAME)



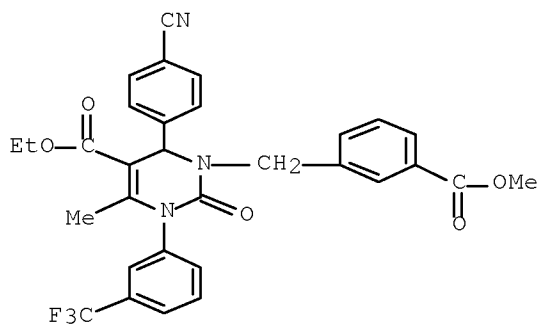
RN 904958-59-4 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 3-[(4-carboxyphenyl)methyl]-4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, 5-ethyl ester (CA INDEX NAME)



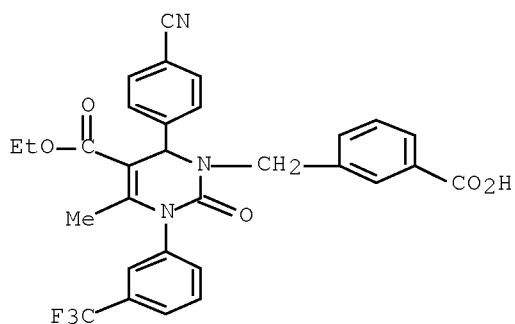
RN 904958-60-7 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-1,2,3,4-tetrahydro-3-[[3-(methoxycarbonyl)phenyl]methyl]-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, ethyl ester (CA INDEX NAME)



RN 904958-61-8 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 3-[(3-carboxyphenyl)methyl]-4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, 5-ethyl ester (CA INDEX NAME)

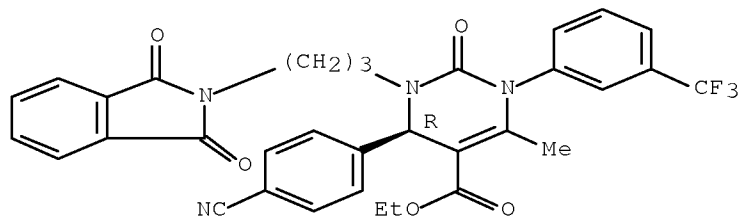


RN 904958-62-9 HCAPLUS

Serial No.:10/590,786

CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-3-[3-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)propyl]-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, ethyl ester, (4R)- (CA INDEX NAME)

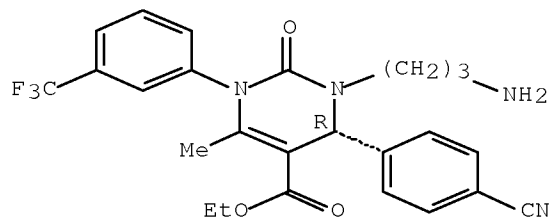
Absolute stereochemistry.



RN 904958-63-0 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 3-(3-aminopropyl)-4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, ethyl ester, (4R)- (CA INDEX NAME)

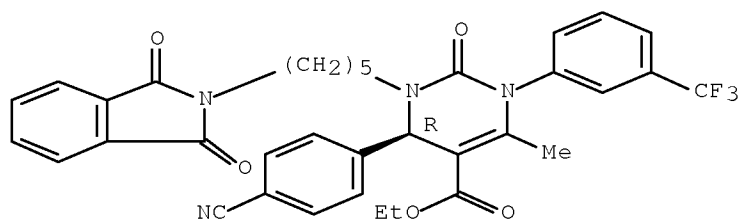
Absolute stereochemistry.



RN 904958-64-1 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-3-[5-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)pentyl]-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, ethyl ester, (4R)- (CA INDEX NAME)

Absolute stereochemistry.



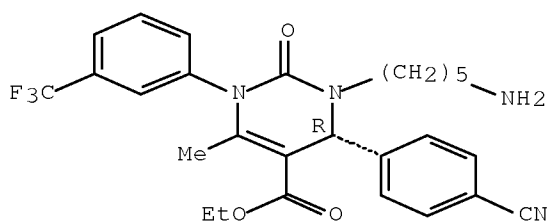
RN 904958-65-2 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 3-(5-aminopentyl)-4-(4-cyanophenyl)-1,2,3,4-

Serial No.:10/590,786

tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, ethyl ester,  
(4R)- (CA INDEX NAME)

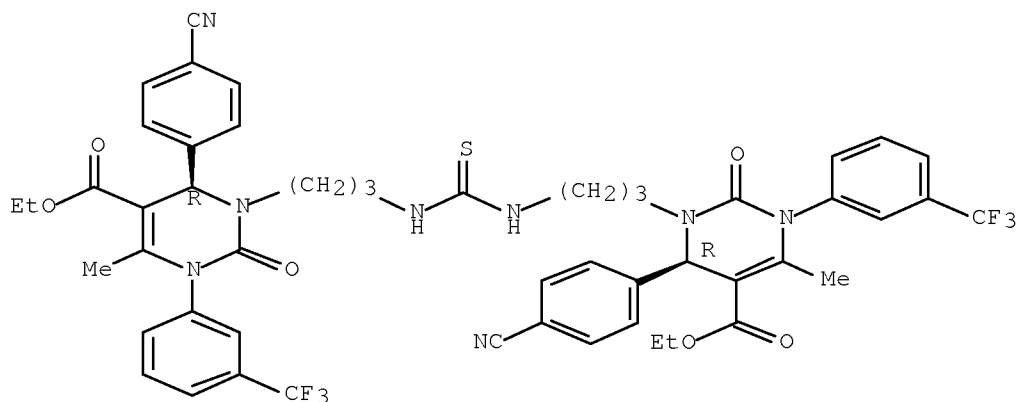
Absolute stereochemistry.



RN 904958-66-3 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1,1'-[carbonothioylbis(imino-3,1-propanediyl)]bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, diethyl ester, (6R,6'R)- (9CI) (CA INDEX NAME)

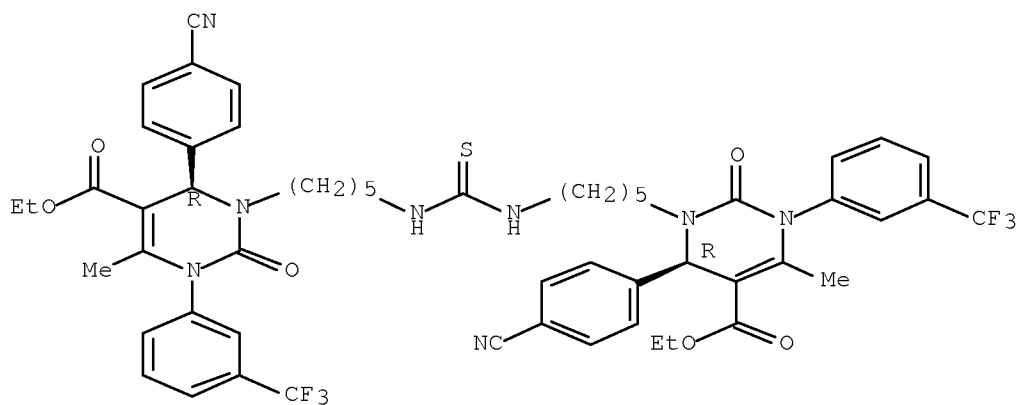
Absolute stereochemistry.



RN 904958-67-4 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1,1'-[carbonothioylbis(imino-5,1-pentanedyl)]bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, diethyl ester, (6R,6'R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

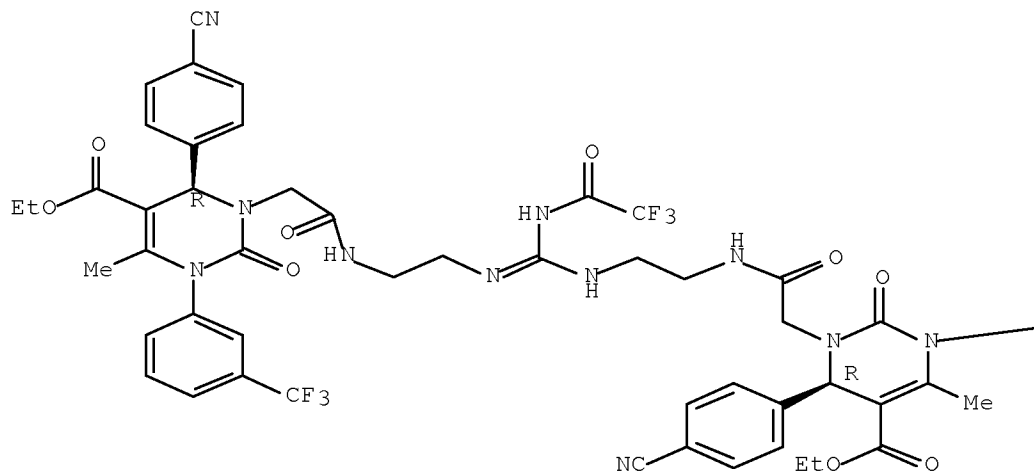


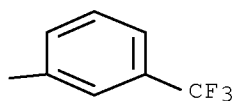
RN 904958-68-5 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1,1'-[2,12-dioxo-7-[(trifluoroacetyl)amino]-3,6,8,11-tetraaza-6-tridecene-1,13-diyl]bis[6-(4-cyanophenyl)-1,2,3,6-tetrahydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, diethyl ester, (6R,6'R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

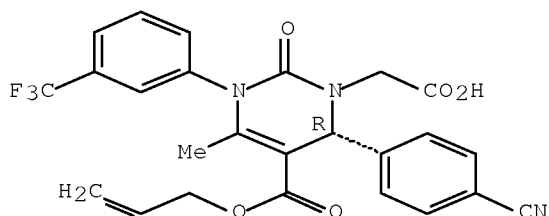




RN 904958-69-6 HCAPLUS

CN 1(2H)-Pyrimidineacetic acid, 6-(4-cyanophenyl)-3,6-dihydro-4-methyl-2-oxo-5-[(2-propen-1-yloxy)carbonyl]-3-[3-(trifluoromethyl)phenyl]-, (6R)- (CA INDEX NAME)

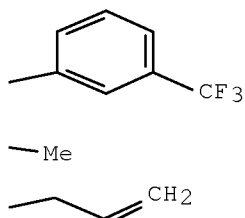
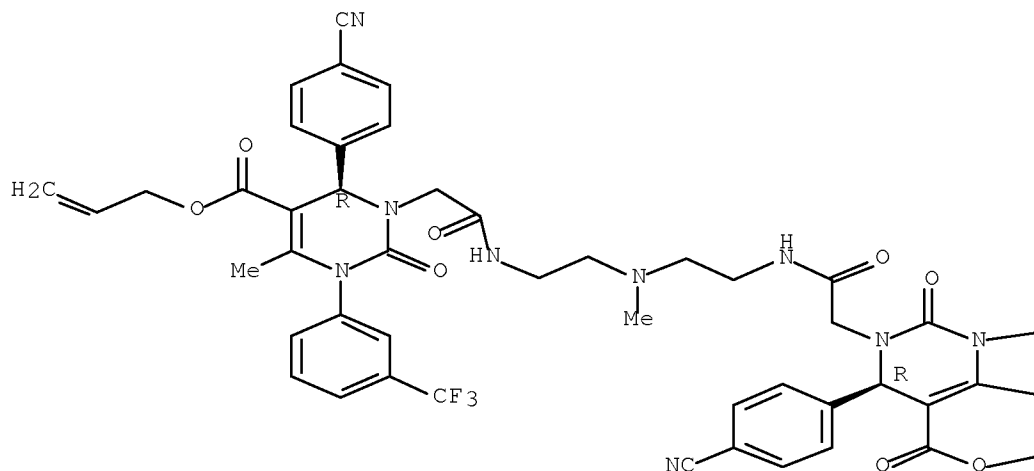
Absolute stereochemistry.



RN 904958-70-9 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-3-[2-[[2-[[2-[[2-[(6R)-6-(4-cyanophenyl)-3,6-dihydro-4-methyl-2-oxo-5-[(2-propen-1-yloxy)carbonyl]-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]amino]ethyl]methylamino]ethyl]amino]-2-oxoethyl]-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, 2-propen-1-yl ester, (4R)- (CA INDEX NAME)

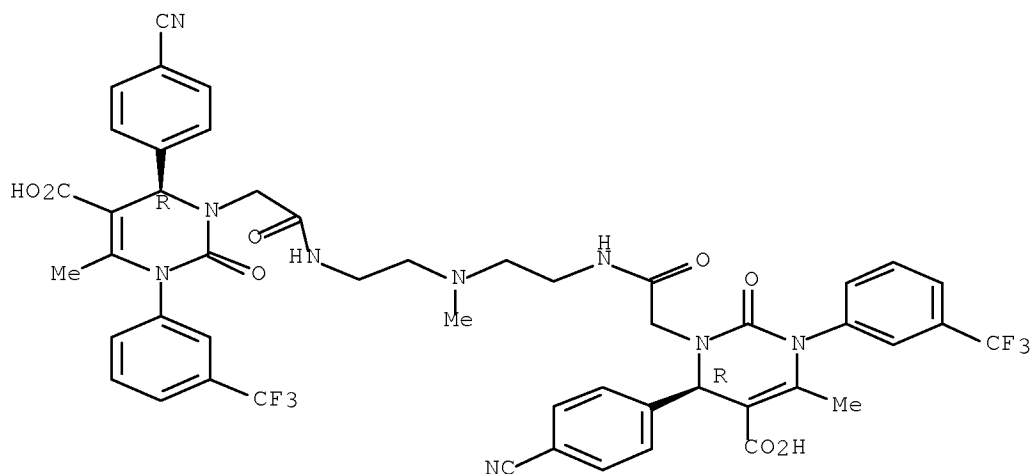
Absolute stereochemistry.



RN 904958-71-0 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 3-[2-[[2-[[2-[[2-[(6R)-5-carboxy-6-(4-cyanophenyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]amino]ethyl]methylamino]ethyl]amino]-2-oxoethyl]-4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, (4R)- (CA INDEX NAME)

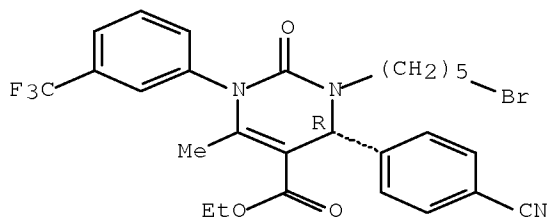
Absolute stereochemistry.



RN 904958-72-1 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 3-(5-bromopentyl)-4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, ethyl ester, (4R)- (CA INDEX NAME)

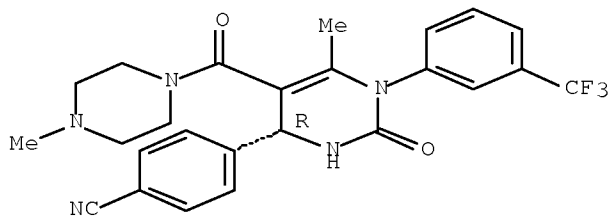
Absolute stereochemistry.



RN 904958-73-2 HCAPLUS

CN Benzonitrile, 4-[(4R)-1,2,3,4-tetrahydro-6-methyl-5-[(4-methyl-1-piperazinyl)carbonyl]-2-oxo-1-[3-(trifluoromethyl)phenyl]-4-pyrimidinyl]- (CA INDEX NAME)

Absolute stereochemistry.

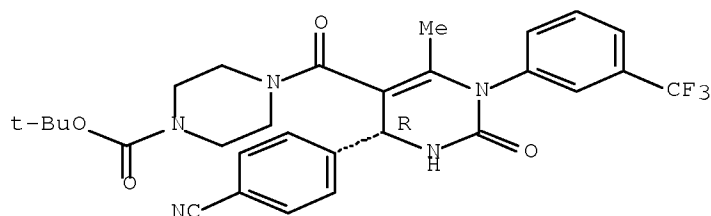


RN 904958-74-3 HCAPLUS

Serial No.:10/590,786

CN 1-Piperazinecarboxylic acid, 4-[[ (4R)-4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-5-pyrimidinyl]carbonyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

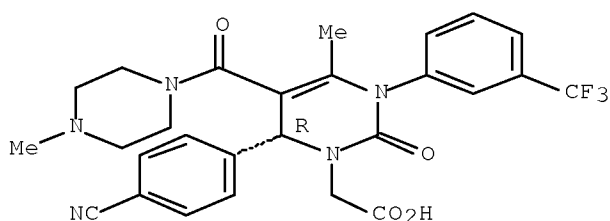
Absolute stereochemistry.



RN 904958-75-4 HCAPLUS

CN 1(2H)-Pyrimidineacetic acid, 6-(4-cyanophenyl)-3,6-dihydro-4-methyl-5-[(4-methyl-1-piperazinyl)carbonyl]-2-oxo-3-[3-(trifluoromethyl)phenyl]-, (6R)- (CA INDEX NAME)

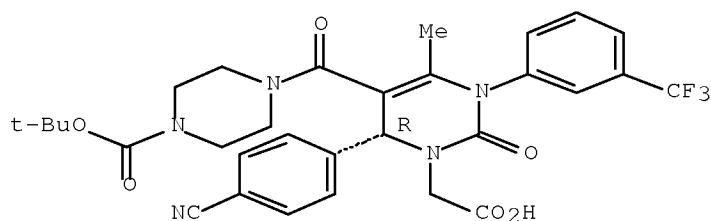
Absolute stereochemistry.



RN 904958-76-5 HCAPLUS

CN 1(2H)-Pyrimidineacetic acid, 6-(4-cyanophenyl)-5-[[4-[(1,1-dimethylethoxy)carbonyl]-1-piperazinyl]carbonyl]-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, (6R)- (CA INDEX NAME)

Absolute stereochemistry.



RN 904958-77-6 HCAPLUS

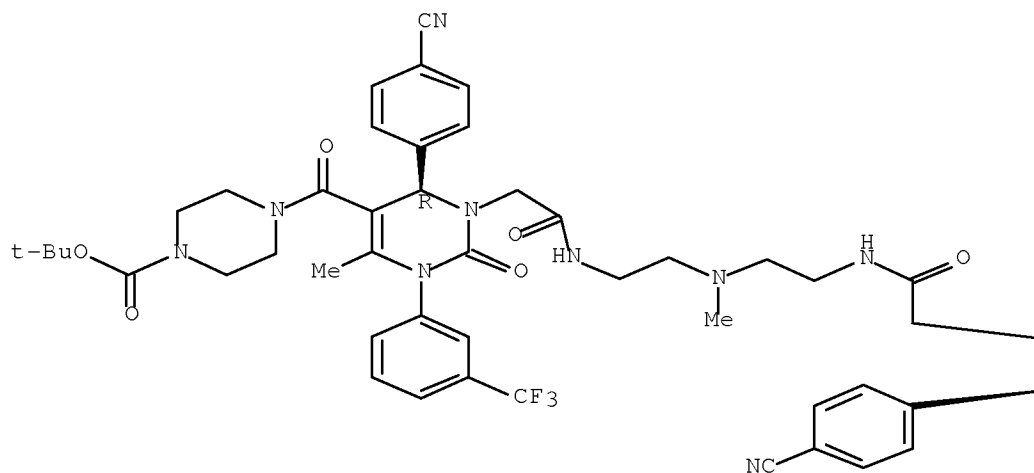
CN 1-Piperazinecarboxylic acid, 4-[[ (4R)-4-(4-cyanophenyl)-3-[2-[[2-[[2-[[2-

Serial No.:10/590,786

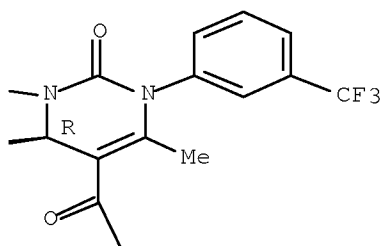
[(6R)-6-(4-cyanophenyl)-5-[[4-[(1,1-dimethylethoxy)carbonyl]-1-piperazinyl]carbonyl]-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]amino]ethyl]methylamino]ethyl]amino]-2-oxoethyl]-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-5-pyrimidinyl]carbonyl]-, 1,1-dimethylethyl ester  
(CA INDEX NAME)

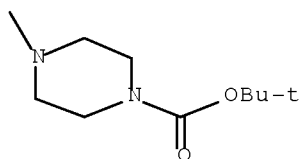
Absolute stereochemistry.

PAGE 1-A



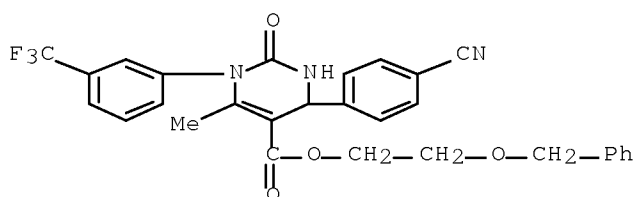
PAGE 1-B





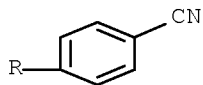
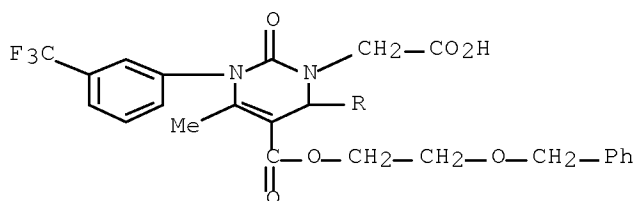
RN 904958-78-7 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, 2-(phenylmethoxy)ethyl ester (CA INDEX NAME)



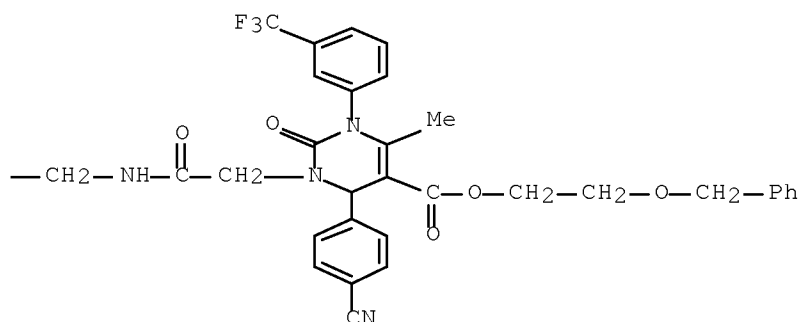
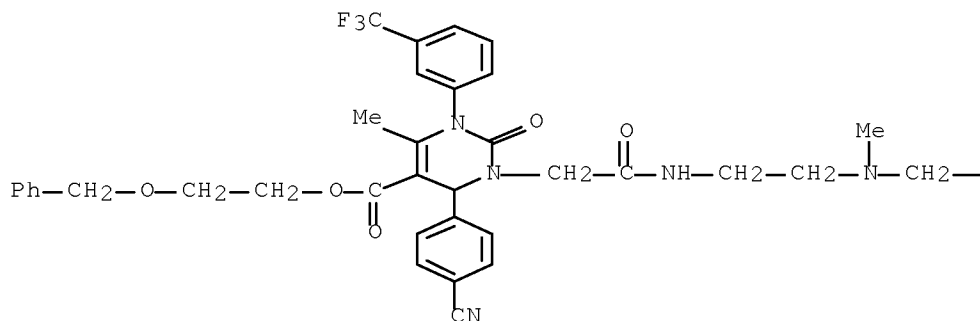
RN 904958-79-8 HCAPLUS

CN 1(2H)-Pyrimidineacetic acid, 6-(4-cyanophenyl)-3,6-dihydro-4-methyl-2-oxo-5-[[2-(phenylmethoxy)ethoxy]carbonyl]-3-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



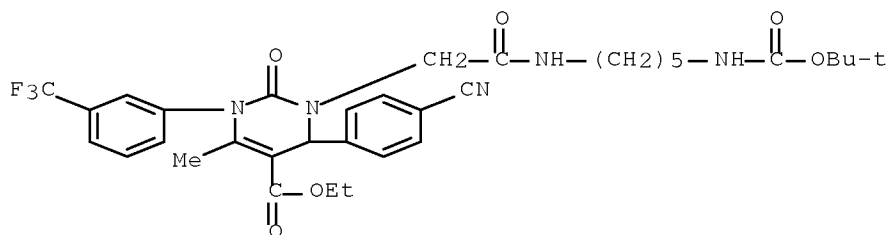
RN 904958-80-1 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-3-[2-[[2-[[2-[[2-[6-(4-cyanophenyl)-3,6-dihydro-4-methyl-2-oxo-5-[[2-(phenylmethoxy)ethoxy]carbonyl]-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]amino]ethyl]methylamino]ethyl]amino]-2-oxoethyl]-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, 2-(phenylmethoxy)ethyl ester (CA INDEX NAME)



RN 904958-81-2 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-3-[2-[[5-[[ (1,1-dimethylethoxy)carbonyl]amino]pentyl]amino]-2-oxoethyl]-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, ethyl ester (CA INDEX NAME)



RN 904958-83-4 HCAPLUS

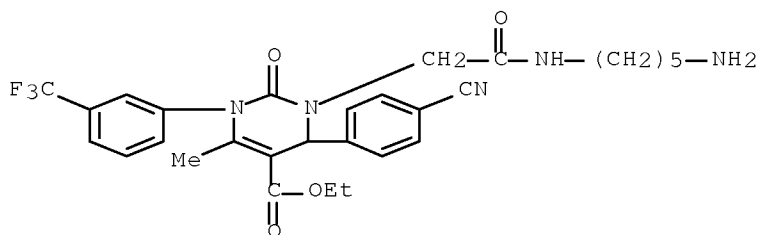
CN 5-Pyrimidinecarboxylic acid, 3-[2-[(5-aminopentyl)amino]-2-oxoethyl]-4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, ethyl ester, 2,2,2-trifluoroacetate (1:1) (CA

INDEX NAME)

CM 1

CRN 904958-82-3

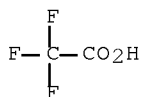
CMF C29 H32 F3 N5 O4



CM 2

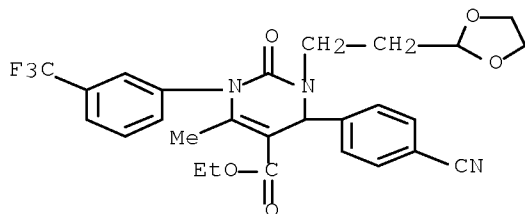
CRN 76-05-1

CMF C2 H F3 O2



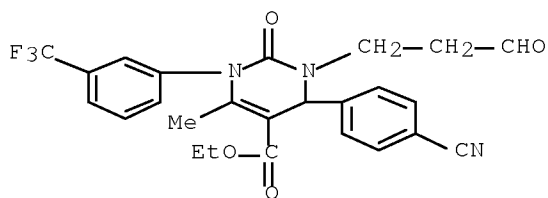
RN 904958-97-0 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-3-[2-(1,3-dioxolan-2-yl)ethyl]-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, ethyl ester (CA INDEX NAME)



RN 904958-98-1 HCAPLUS

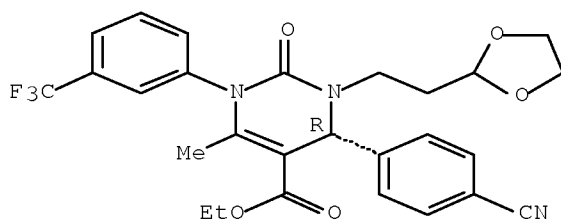
CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-3-(3-oxopropyl)-1-[3-(trifluoromethyl)phenyl]-, ethyl ester (CA INDEX NAME)



RN 904958-99-2 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-3-[2-(1,3-dioxolan-2-yl)ethyl]-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, ethyl ester, (4R)- (CA INDEX NAME)

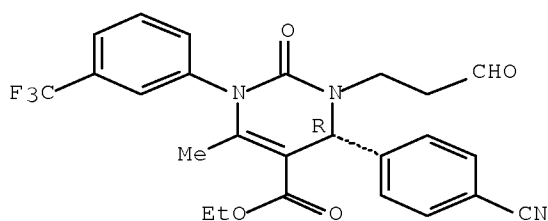
Absolute stereochemistry.



RN 904959-00-8 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-3-(3-oxopropyl)-1-[3-(trifluoromethyl)phenyl]-, ethyl ester, (4R)- (CA INDEX NAME)

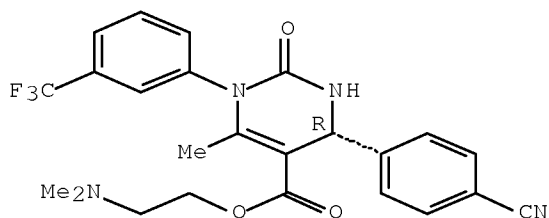
Absolute stereochemistry.



RN 904959-01-9 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, 2-(dimethylamino)ethyl ester, (4R)- (CA INDEX NAME)

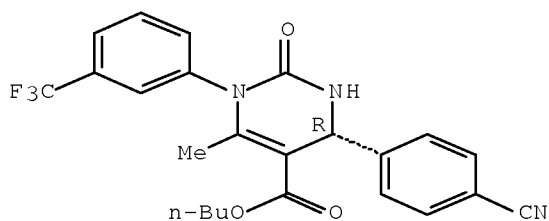
Absolute stereochemistry.



RN 904959-02-0 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, butyl ester, (4R)- (CA INDEX NAME)

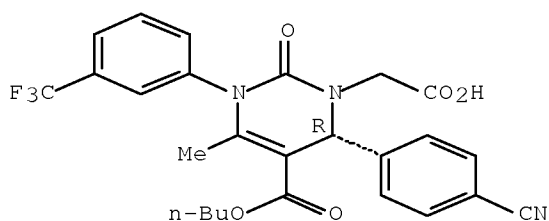
Absolute stereochemistry.



RN 904959-03-1 HCAPLUS

CN 1(2H)-Pyrimidineacetic acid, 5-(butoxycarbonyl)-6-(4-cyanophenyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-, (6R)- (CA INDEX NAME)

Absolute stereochemistry.

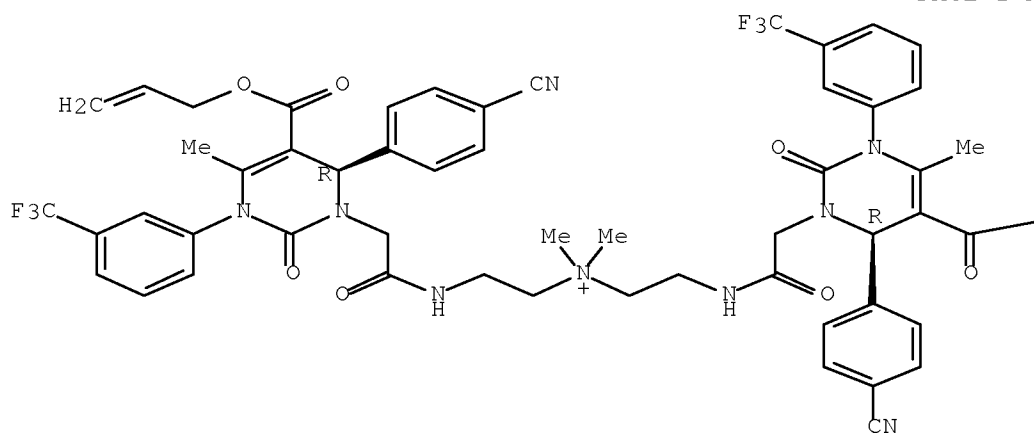


RN 904959-04-2 HCAPLUS

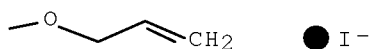
CN Ethanaminium, 2-[[2-[(6R)-6-(4-cyanophenyl)-3,6-dihydro-4-methyl-2-oxo-5-[(2-propen-1-yloxy)carbonyl]-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]amino]-N-[2-[[2-[(6R)-6-(4-cyanophenyl)-3,6-dihydro-4-methyl-2-oxo-5-[(2-propen-1-yloxy)carbonyl]-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]amino]ethyl]-N,N-dimethyl-, iodide (1:1) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



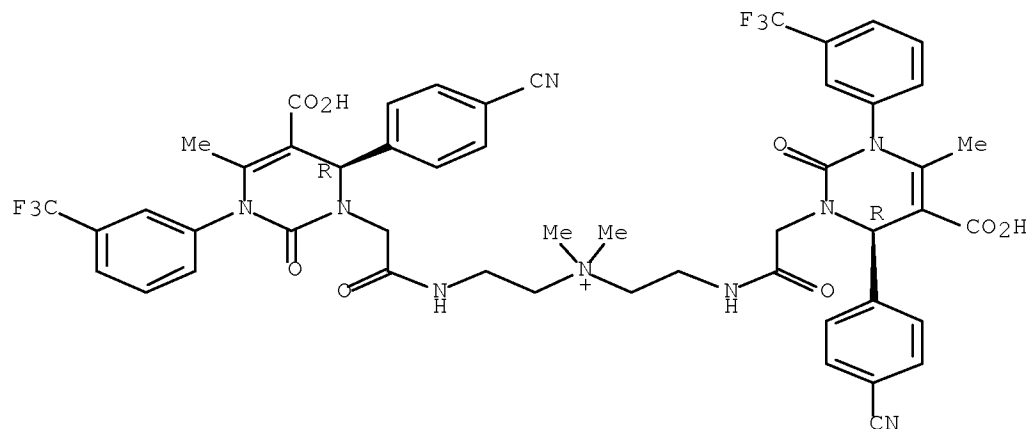
PAGE 1-B



RN 904959-05-3 HCAPLUS

CN Ethanaminium, 2-[[2-[(6R)-5-carboxy-6-(4-cyanophenyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]amino]-N-[2-[[2-[(6R)-5-carboxy-6-(4-cyanophenyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1(2H)-pyrimidinyl]acetyl]amino]ethyl]-N,N-dimethyl-, iodide (1:1) (CA INDEX NAME)

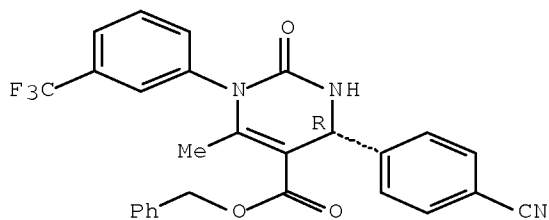
Absolute stereochemistry.



RN 904959-07-5 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, phenylmethyl ester, (4R)- (CA INDEX NAME)

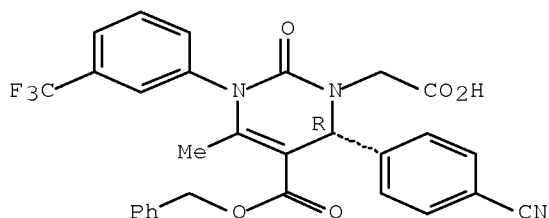
Absolute stereochemistry.



RN 904959-08-6 HCAPLUS

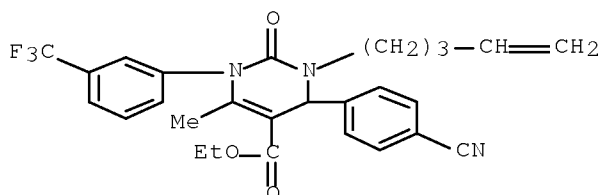
CN 1(2H)-Pyrimidineacetic acid, 6-(4-cyanophenyl)-3,6-dihydro-4-methyl-2-oxo-5-[(phenylmethoxy)carbonyl]-3-[3-(trifluoromethyl)phenyl]-, (6R)- (CA INDEX NAME)

Absolute stereochemistry.



RN 904959-16-6 HCAPLUS

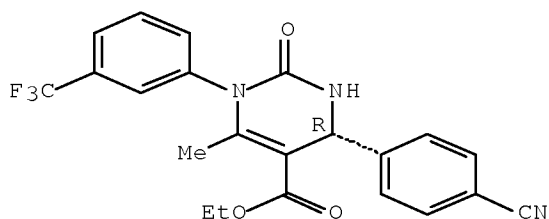
CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-3-(4-penten-1-yl)-1-[3-(trifluoromethyl)phenyl]-, ethyl ester (CA INDEX NAME)



RN 905287-66-3 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, ethyl ester, (4R)- (CA INDEX NAME)

Absolute stereochemistry.

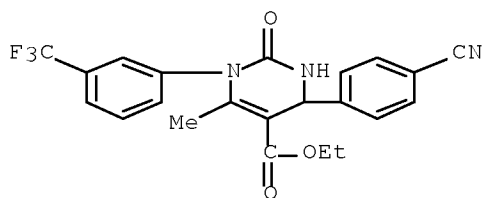


IT 671775-85-2 671776-27-5

RL: RCT (Reactant); RACT (Reactant or reagent)  
(starting material; preparation of multimers of tetrahydropyrimidinone compds. as elastase inhibitors useful in the treatment of respiratory diseases)

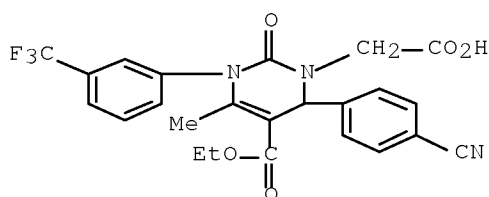
RN 671775-85-2 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-, ethyl ester (CA INDEX NAME)



RN 671776-27-5 HCAPLUS

CN 1(2H)-Pyrimidineacetic acid, 6-(4-cyanophenyl)-5-(ethoxycarbonyl)-3,6-dihydro-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)

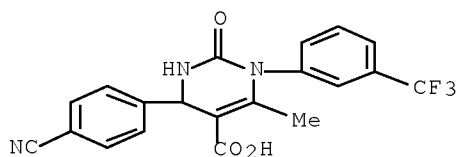


IT 671775-95-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(starting material; preparation of multimers of tetrahydropyrimidinone compds. as elastase inhibitors useful in the treatment of respiratory diseases)

RN 671775-95-4 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(4-cyanophenyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



L57 ANSWER 3 OF 15 HCAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 3

ACCESSION NUMBER: 2001:779582 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 136:183781

TITLE: Investigation of the chemical reactivity of positions N-3, C-5 and C6-methyl group in Biginelli type compounds and synthesis of new dihydropyrimidine derivatives

AUTHOR(S): Namazi, H.; Mirzaei, Y. R.; Azamat, H.

CORPORATE SOURCE: Lab of Carbohydrates and Biopolymers, Faculty of Chemistry, University of Tabriz, Tabriz, Iran

SOURCE: Journal of Heterocyclic Chemistry (2001),

38(5), 1051-1054

CODEN: JHTCAD; ISSN: 0022-152X

PUBLISHER:

HeteroCorporation

DOCUMENT TYPE:

Journal

LANGUAGE:

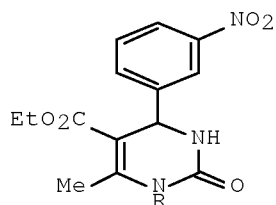
English

OTHER SOURCE(S):

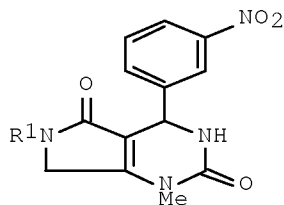
CASREACT 136:183781

ED Entered STN: 26 Oct 2001

GI



I



II

AB Biginelli-type compds. (I; R = Me, Ph) were prepared and converted to eight N-3 substituted dihydropyrimidines using NaH and various electrophiles (ClCO<sub>2</sub>Et, TsCl, Ac<sub>2</sub>O, AcCl and PhCOCl). I (R = Ph) was monobrominated at the C6-Me group using bromine solution. Reaction of the bromo derivative with amino nucleophiles, such as MeNH<sub>2</sub> and cyclohexylamine, produced two pyrrolopyrimidine derivs. (II; R<sub>1</sub> = Me, cyclohexyl). The structures of all the new compds. were confirmed using FTIR, <sup>1</sup>H NMR, and <sup>13</sup>C NMR spectral and elemental analyses.

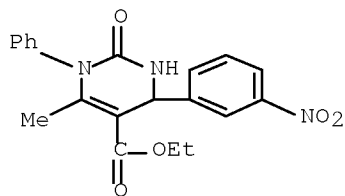
IT 321943-50-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(chemical reactivity of positions N-3, C-5 and C6-Me group in Biginelli type compds. and synthesis of new dihydropyrimidine derivs.)

RN 321943-50-4 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1,2,3,4-tetrahydro-6-methyl-4-(3-nitrophenyl)-2-oxo-1-phenyl-, ethyl ester (CA INDEX NAME)



IT 398456-89-8P 398456-90-1P 398456-91-2P

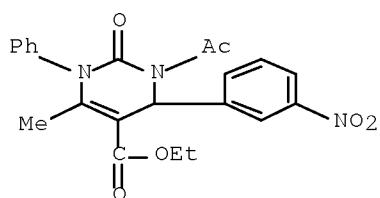
398456-96-7P

RL: SPN (Synthetic preparation); PREP (Preparation)

(chemical reactivity of positions N-3, C-5 and C6-Me group in Biginelli type compds. and synthesis of new dihydropyrimidine derivs.)

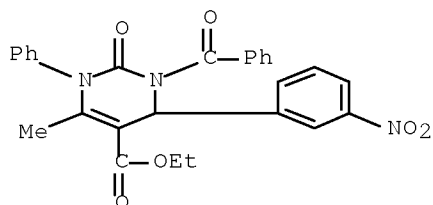
RN 398456-89-8 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 3-acetyl-1,2,3,4-tetrahydro-6-methyl-4-(3-nitrophenyl)-2-oxo-1-phenyl-, ethyl ester (CA INDEX NAME)



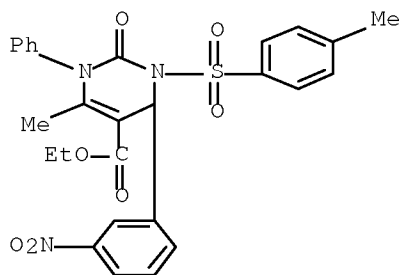
RN 398456-90-1 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 3-benzoyl-1,2,3,4-tetrahydro-6-methyl-4-(3-nitrophenyl)-2-oxo-1-phenyl-, ethyl ester (CA INDEX NAME)



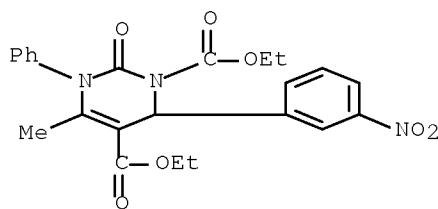
RN 398456-91-2 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1,2,3,4-tetrahydro-6-methyl-3-[(4-methylphenyl)sulfonyl]-4-(3-nitrophenyl)-2-oxo-1-phenyl-, ethyl ester (CA INDEX NAME)



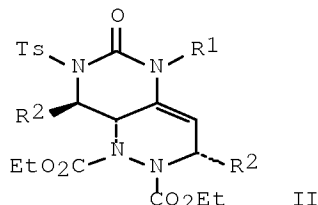
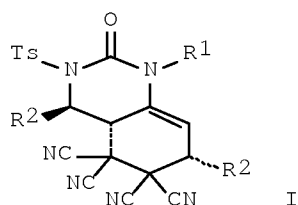
RN 398456-96-7 HCAPLUS

CN 1,5(6H)-Pyrimidinedicarboxylic acid, 2,3-dihydro-4-methyl-6-(3-nitrophenyl)-2-oxo-3-phenyl-, diethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L57 ANSWER 4 OF 15 HCAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 4  
 ACCESSION NUMBER: 1997:403324 HCAPLUS Full-text  
 DOCUMENT NUMBER: 127:135777  
 TITLE: Diene-transmissive hetero-Diels-Alder reaction of cross-conjugated azatrienes: a novel and efficient method for the synthesis of ring-fused nitrogen heterocycles  
 AUTHOR(S): Saito, Takao; Kimura, Hiroaki; Chonan, Tomomichi; Soda, Takayuki; Karakasa, Takayuki  
 CORPORATE SOURCE: Dep. Chem., Faculty Sci., Sci. Univ. Tokyo, Tokyo, 162, Japan  
 SOURCE: Chemical Communications (Cambridge) (1997), (11), 1013-1014  
 CODEN: CHCOFS; ISSN: 1359-7345  
 PUBLISHER: Royal Society of Chemistry  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 127:135777  
 ED Entered STN: 30 Jun 1997  
 GI



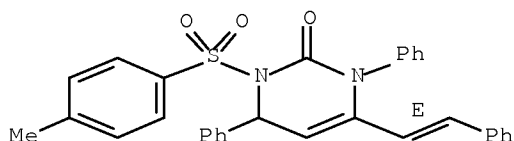
AB A diene-transmissive hetero-Diels-Alder reaction of cross-conjugated azatrienes  $R_2CH:CHC(:NR_1)CH:CHR_2$  ( $R_1 = R_2 = Ph$ ;  $R_1 = 4-MeC_6H_4SO_2$ ,  $R_2 = Ph$ ;  $R_1 = PhCH_2$ ,  $R_2 = Ph$ ), which provides a novel and efficient synthetic method for ring-fused, nitrogen-heterocyclic frameworks such as quinazolin-2-ones, e.g., I, and pyrimido[5,4-c]-pyridazin-6-ones, e.g., II, is described for the first time.

IT 192937-00-1P 192937-01-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (hetero-Diels-Alder of cross-conjugated azatrienes to give quinazolinones and pyrimidopyridazinones)

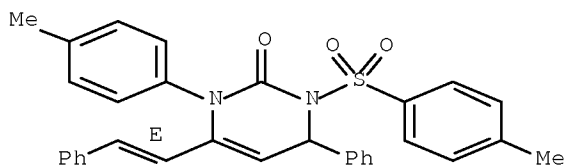
RN 192937-00-1 HCAPLUS  
 CN 2(1H)-Pyrimidinone, 3,4-dihydro-3-[(4-methylphenyl)sulfonyl]-1,4-diphenyl-6-(2-phenylethenyl)-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 192937-01-2 HCAPLUS  
 CN 2(1H)-Pyrimidinone, 3,4-dihydro-1-(4-methylphenyl)-3-[(4-methylphenyl)sulfonyl]-4-phenyl-6-(2-phenylethenyl)-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L57 ANSWER 5 OF 15 HCAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 5

ACCESSION NUMBER: 1994:508678 HCAPLUS Full-text

DOCUMENT NUMBER: 121:108678

TITLE: A simple approach to pyrimidine and quinazoline derivatives by [4+2] cycloaddition of 1,3-diazadienes and enamines

AUTHOR(S): Barluenga, Jose; Tomas, Miguel; Ballesteros, Alfredo; Lopez, Luis A.

CORPORATE SOURCE: Fac. Quim., Univ. Oviedo, Oviedo, 33071, Spain

SOURCE: Heterocycles (1994), 37(2), 1109-20

CODEN: HTCYAM; ISSN: 0385-5414

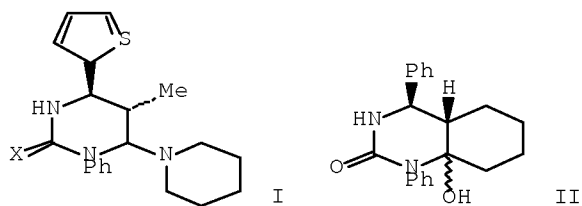
DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 121:108678

ED Entered STN: 03 Sep 1994

GI



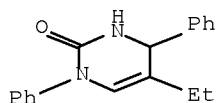
AB The reaction of 2-(trimethylsilyloxy)- and 2-(trimethylsilylthio)-1,3-diazabutadienes with enamines derived from aliphatic aldehydes leads regio- and stereoselectivity to substituted tetrahydropyrimidin-2(1H)-ones and thiones, e.g. I (X = O, S), in high yields. Extension of this cycloaddn. to cyclic enamines, e.g., derived from cyclohexanone, leading to quinazoline derivs., e.g. II, is also described. These heterocycles undergo hydrolysis and dehydration to 3,4-dihydropyrimidine and 3,4,5,6,7,8-hexahydroquinazoline derivs.

IT 126400-43-9P 156809-75-5P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

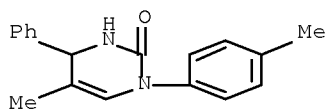
RN 126400-43-9 HCAPLUS

CN 2(1H)-Pyrimidinone, 5-ethyl-3,4-dihydro-1,4-diphenyl- (CA INDEX NAME)



RN 156809-75-5 HCAPLUS

CN 2(1H)-Pyrimidinone, 3,4-dihydro-5-methyl-1-(4-methylphenyl)-4-phenyl- (CA INDEX NAME)



L57 ANSWER 6 OF 15 HCAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 6

ACCESSION NUMBER: 1990:178861 HCAPLUS Full-text

DOCUMENT NUMBER: 112:178861

ORIGINAL REFERENCE NO.: 112:30256h,30257a

TITLE: 1,4-Cycloaddition of 1,3-diazabutadienes with  
enamines: an efficient route to the pyrimidine ring  
AUTHOR(S): Barluenga, Jose; Tomas, Miguel; Ballesteros, Alfredo;  
Lopez, Luis A.

CORPORATE SOURCE: Fac. Quim., Univ. Oviedo, Oviedo, 33071, Spain

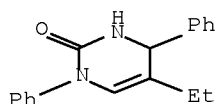
SOURCE: Tetrahedron Letters (1989), 30(34), 4573-6

CODEN: TELEAY; ISSN: 0040-4039

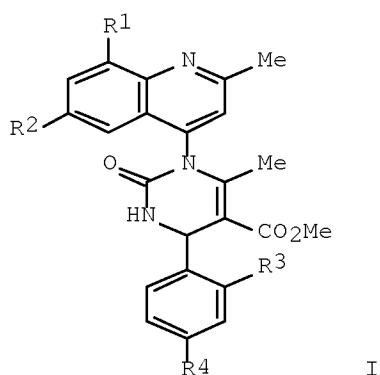
DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 112:178861  
 ED Entered STN: 12 May 1990  
 GI



AB [4 + 2]Cycloaddn. reactions of 2-trimethylsilyloxy- and 2-trimethylsilylthio-1,3-diazabutadienes with enamines leading to pyrimidone derivs. are described. E.g., pyrimidine I was prepared from diazadiene II and (E)-1-pyrrolidino-1-butene.  
 IT 126400-43-9P  
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)  
 RN 126400-43-9 HCAPLUS  
 CN 2(1H)-Pyrimidinone, 5-ethyl-3,4-dihydro-1,4-diphenyl- (CA INDEX NAME)



L57 ANSWER 7 OF 15 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2002:199080 HCAPLUS Full-text  
 DOCUMENT NUMBER: 137:63219  
 TITLE: Arylquinolinylpyrimidones as antibacterial agents  
 AUTHOR(S): Machhi, Jigna; Patel, Dinesh; Desai, C. M.; Desai, Pratibha; Joshi, H. D.  
 CORPORATE SOURCE: Artemis Research Centre, Themis Chemical Ltd, Vapi, 396 185, India  
 SOURCE: Journal of the Institution of Chemists (India) (2001), 73(4), 140-142  
 CODEN: JOICA7; ISSN: 0020-3254  
 PUBLISHER: Institution of Chemists (India)  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 137:63219  
 ED Entered STN: 19 Mar 2002  
 GI



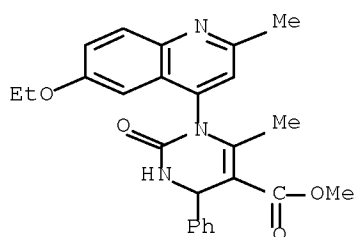
AB Title compds. I (R1 = Me, H; R2 = H, OMe, OEt; R3 = H, Cl, NO2; R4 = H, OMe, NO2) were synthesized and screened for their antibacterial activity.

IT 439079-03-5P 439079-05-7P 439079-06-8P  
439079-10-4P 439079-11-5P 439079-12-6P  
439079-13-7P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
(arylquinolinylpyrimidones as antibacterial agents)

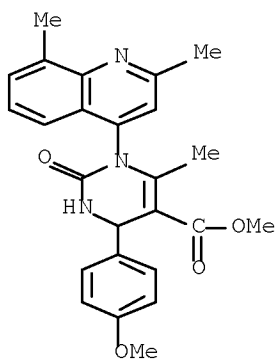
RN 439079-03-5 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1-(6-ethoxy-2-methyl-4-quinolinyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-4-phenyl-, methyl ester (CA INDEX NAME)



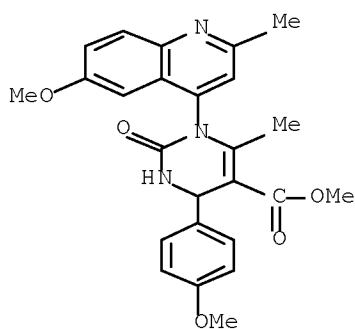
RN 439079-05-7 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1-(2,8-dimethyl-4-quinolinyl)-1,2,3,4-tetrahydro-4-(4-methoxyphenyl)-6-methyl-2-oxo-, methyl ester (CA INDEX NAME)



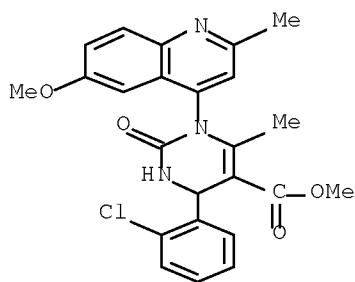
RN 439079-06-8 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1,2,3,4-tetrahydro-1-(6-methoxy-2-methyl-4-quinolinyl)-4-(4-methoxyphenyl)-6-methyl-2-oxo-, methyl ester (CA INDEX NAME)



RN 439079-10-4 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(2-chlorophenyl)-1,2,3,4-tetrahydro-1-(6-methoxy-2-methyl-4-quinolinyl)-6-methyl-2-oxo-, methyl ester (CA INDEX NAME)

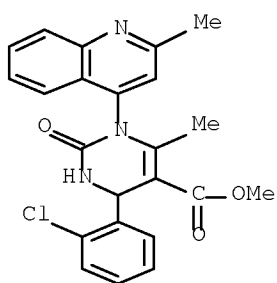


RN 439079-11-5 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(2-chlorophenyl)-1,2,3,4-tetrahydro-6-

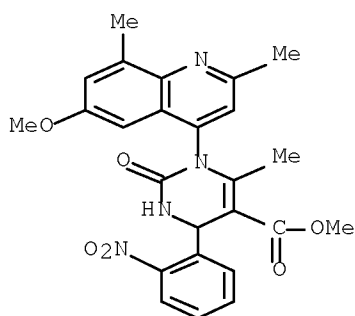
Serial No.:10/590,786

methyl-1-(2-methyl-4-quinolinyl)-2-oxo-, methyl ester (CA INDEX NAME)



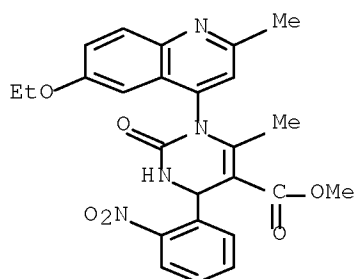
RN 439079-12-6 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1,2,3,4-tetrahydro-1-(6-methoxy-2,8-dimethyl-4-quinolinyl)-6-methyl-4-(2-nitrophenyl)-2-oxo-, methyl ester (CA INDEX NAME)



RN 439079-13-7 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1-(6-ethoxy-2-methyl-4-quinolinyl)-1,2,3,4-tetrahydro-6-methyl-4-(2-nitrophenyl)-2-oxo-, methyl ester (CA INDEX NAME)



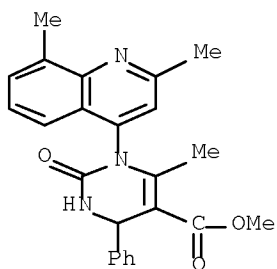
IT 439079-01-3P 439079-02-4P 439079-04-6P  
439079-07-9P 439079-08-0P 439079-09-1P  
439079-14-8P 439079-15-9P 439079-16-0P

Serial No.:10/590,786

RL: SPN (Synthetic preparation); PREP (Preparation)  
(arylquinolinylpyrimidones as antibacterial agents)

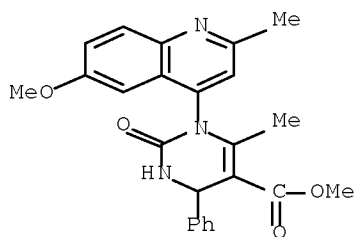
RN 439079-01-3 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1-(2,8-dimethyl-4-quinolinyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-4-phenyl-, methyl ester (CA INDEX NAME)



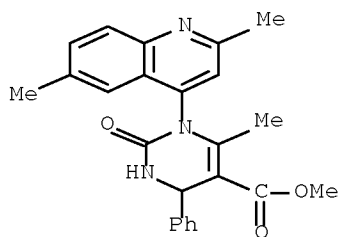
RN 439079-02-4 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1-(6-methoxy-2-methyl-4-quinolinyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-4-phenyl-, methyl ester (CA INDEX NAME)



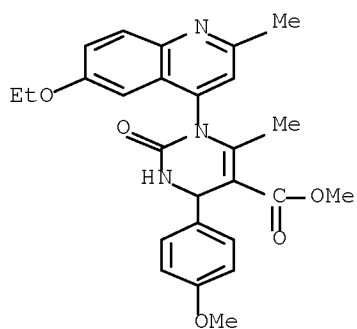
RN 439079-04-6 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1-(2,6-dimethyl-4-quinolinyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-4-phenyl-, methyl ester (CA INDEX NAME)



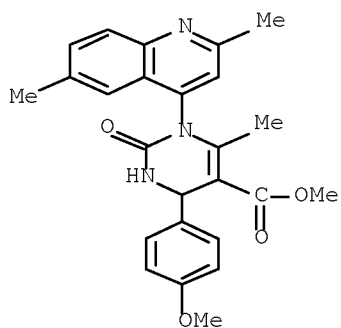
RN 439079-07-9 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1-(6-ethoxy-2-methyl-4-quinolinyl)-1,2,3,4-tetrahydro-4-(4-methoxyphenyl)-6-methyl-2-oxo-, methyl ester (CA INDEX NAME)



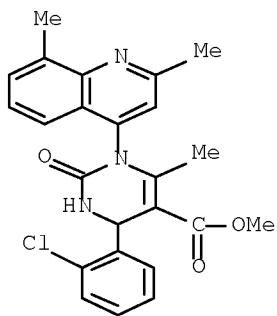
RN 439079-08-0 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1-(2,6-dimethyl-4-quinolinyl)-1,2,3,4-tetrahydro-4-(4-methoxyphenyl)-6-methyl-2-oxo-, methyl ester (CA INDEX NAME)



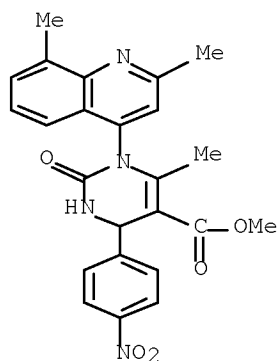
RN 439079-09-1 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 4-(2-chlorophenyl)-1-(2,8-dimethyl-4-quinolinyl)-1,2,3,4-tetrahydro-6-methyl-2-oxo-, methyl ester (CA INDEX NAME)



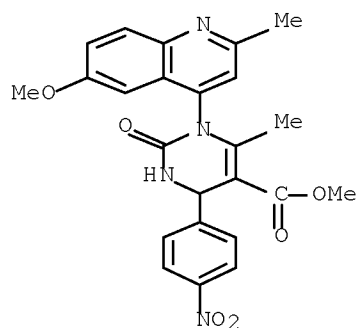
RN 439079-14-8 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1-(2,8-dimethyl-4-quinolinyl)-1,2,3,4-tetrahydro-6-methyl-4-(4-nitrophenyl)-2-oxo-, methyl ester (CA INDEX NAME)



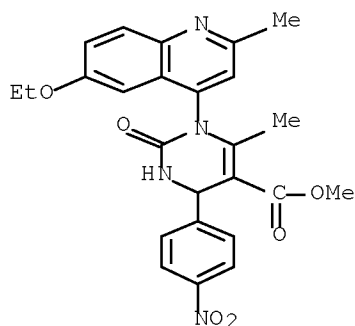
RN 439079-15-9 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1-(6-methoxy-2-methyl-4-quinolinyl)-1,2,3,4-tetrahydro-6-methyl-4-(4-nitrophenyl)-2-oxo-, methyl ester (CA INDEX NAME)



RN 439079-16-0 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1-(6-ethoxy-2-methyl-4-quinolinyl)-1,2,3,4-tetrahydro-6-methyl-4-(4-nitrophenyl)-2-oxo-, methyl ester (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L57 ANSWER 8 OF 15 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1998:795884 HCAPLUS Full-text

DOCUMENT NUMBER: 130:125043

TITLE: A Combinatorial Approach to Recognition of Chirality:  
Preparation of Highly Enantioselective  
Aryl-Dihydropyrimidine Selectors for Chiral HPLC  
AUTHOR(S): Lewandowski, Kevin; Murer, Peter; Svec, Frantisek;  
Frechet, Jean M. J.

CORPORATE SOURCE: Department of Chemistry, University of California,  
Berkeley, CA, 94720-1460, USA

SOURCE: Journal of Combinatorial Chemistry (1999),  
1(1), 105-112

CODEN: JCCHFF; ISSN: 1520-4766

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 22 Dec 1998

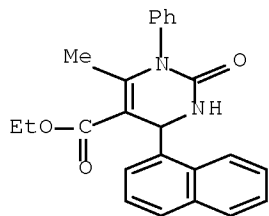
AB A parallel library of 108 4-aryl-1,4-dihydropyrimidine (DHPM) enantiomers, which are potential selectors for chiral HPLC sepns., was synthesized using the single-step Biginelli multicomponent condensation. The individual compds. were screened by observing the enantioselectivity for resolution on a brush-type L-(3,5-dinitrobenzoyl)leucine-based chiral stationary phase, and separation factors  $\alpha$  up to 12 were achieved. The best candidates from the library contained an ortho-substituted aromatic group at C-4 of the pyrimidine ring and an alkyl substituent at N-1. Resolution of the enantiomers of the lead compound, 4-(9-phenanthryl)-1,4-dihydropyrimidine, using semipreparative chiral HPLC followed by attachment to monodisperse macroporous aminomethacrylate beads, provided a novel polymer based chiral stationary phase with good enantioselectivities in the resolution of several  $\pi$ -acidic aryldihydropyrimidines and derivatized profens. In addition, 3,5-dinitrobenzamido derivs. of  $\alpha$ -amino acids could be resolved under normal phase HPLC conditions with separation factors up to 8.

IT 219814-96-7P 219814-97-8P

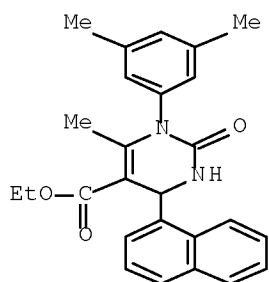
RL: PEP (Physical, engineering or chemical process); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)  
(combinatorial synthesis and resolution of aryldihydropyrimidinecarboxylates for use as chiral stationary phases)

RN 219814-96-7 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 1,2,3,4-tetrahydro-6-methyl-4-(1-naphthalenyl)-2-oxo-1-phenyl-, ethyl ester (CA INDEX NAME)



RN 219814-97-8 HCAPLUS  
 CN 5-Pyrimidinecarboxylic acid, 1-(3,5-dimethylphenyl)-1,2,3,4-tetrahydro-6-methyl-4-(1-naphthalenyl)-2-oxo-, ethyl ester (CA INDEX NAME)



REFERENCE COUNT: 69 THERE ARE 69 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L57 ANSWER 9 OF 15 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 1998:594082 HCAPLUS [Full-text](#)  
 DOCUMENT NUMBER: 129:269481  
 TITLE: Synthesis and characterization of metal chelates with new pyrimidine derivatives  
 AUTHOR(S): Siddiqi, K. S.; Nishat, N.  
 CORPORATE SOURCE: Department of Chemistry, University of Bahrain, Isa Town, Bahrain  
 SOURCE: Synthesis and Reactivity in Inorganic and Metal-Organic Chemistry (1998), 28(8), 1353-1369  
 CODEN: SRIMCN; ISSN: 0094-5714  
 PUBLISHER: Marcel Dekker, Inc.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 ED Entered STN: 18 Sep 1998  
 AB The ligands 4-phenyl-5-ethoxycarbonyl-6-methyl-3,4-dihydropyrimidin-2-one (L1), 1,3-diacetamido(4-phenyl-5-ethoxycarbonyl-6-methyl-3,4-dihydropyrimidin-2-one) (L2) and 1,3-dipyrimidinyl(4-phenyl-5-ethoxycarbonyl-6-methyl-3,4-dihydropyrimidin-2-one) (L3) and their metal chelates with 3d metal ions were synthesized. The conductivity measurements suggest that [M(L1)2Cl2], [M2(L2)Cl4], [M'2(L2)Cl6] and [M(L3)2Cl2] are nonelectrolytes in DMSO and MeCN while [M'(L1)2Cl2]Cl and [M'(L3)2Cl2]Cl are 1:1 electrolytes, where M = Mn(II), Co(II), Ni(II), Cu(II) and Zn(II) and M' = Cr(III) and Fe(III). Spectroscopic studies show that L1 coordinates through NH and the O atom of the pyrimidinyl ring, L2 coordinates through the N and O atoms of the

amide group while L3 coordinates via the two N atoms of the pyrimidinone ring. The electronic spectra and the magnetic moments reveal that all metal complexes of L1, L3 and complexes of trivalent metal ions with L2 are octahedral while those of the divalent metal ions with L2 probably have a tetrahedral structure except for the Cu(II) complex which appears to be square-planar. The  $\beta$  values suggest a considerable degree of orbital overlap in the metal-ligand bond.

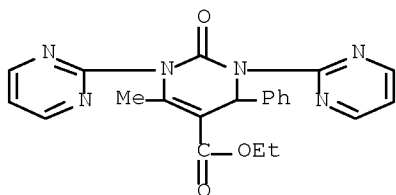
IT 213592-25-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and complexation with first-row transition-metal ions)

RN 213592-25-7 HCAPLUS

CN [2,1'(2'H):3'(4'H),2''-Terpyrimidine]-5'-carboxylic acid,  
4'-methyl-2'-oxo-6'-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



IT 213592-48-4P 213592-50-8P 213592-52-0P

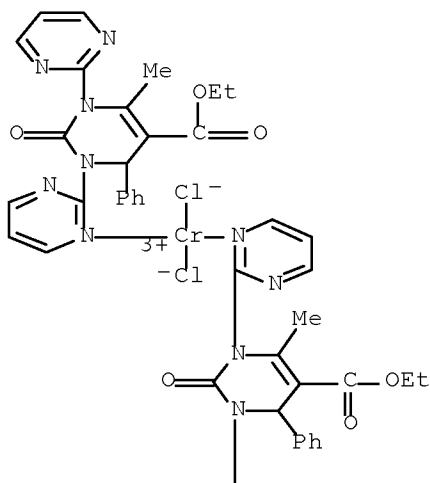
213592-54-2P 213592-56-4P 213592-58-6P

213592-60-0P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

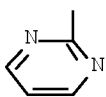
RN 213592-48-4 HCAPLUS

CN Chromium(1+), dichlorobis[ethyl 6'-methyl-2'-oxo-4'-  
phenyl[2,1'(2'H):3'(4'H),2''-terpyrimidine]-5'-carboxylate-κN1]-,  
chloride, (T-4)- (9CI) (CA INDEX NAME)



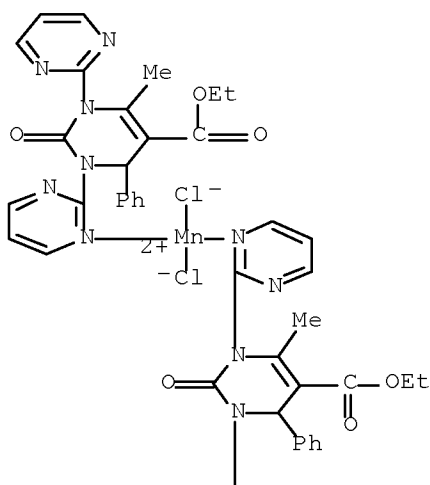
PAGE 1-A

PAGE 2-A

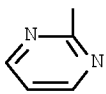


RN 213592-50-8 HCAPLUS  
 CN Manganese, dichlorobis[ethyl 6'-methyl-2'-oxo-4'-phenyl[2,1'(2'H):3'(4'H),2''-terpyrimidine]-5'-carboxylate-κN1]-(9CI) (CA INDEX NAME)

PAGE 1-A

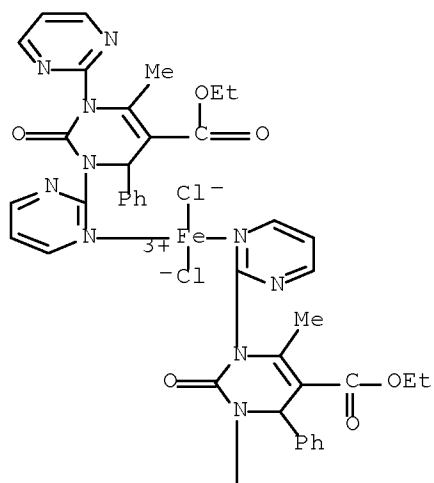


PAGE 2-A

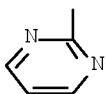


RN 213592-52-0 HCAPLUS  
 CN Iron(1+), dichlorobis[ethyl 6'-methyl-2'-oxo-4'-phenyl[2,1'(2'H):3'(4'H),2''-terpyrimidine]-5'-carboxylate-κN1]-, chloride (9CI) (CA INDEX NAME)

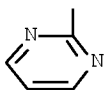
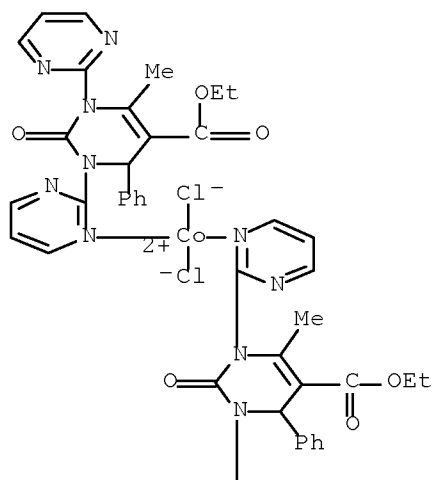
PAGE 1-A



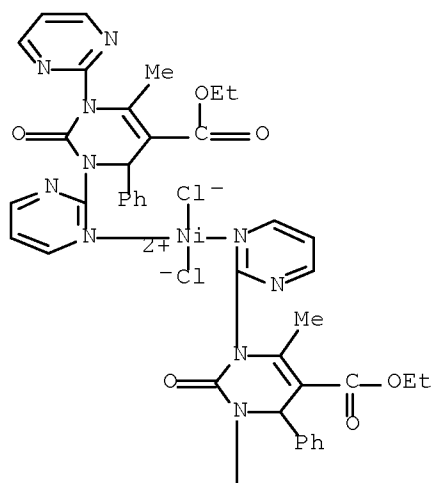
PAGE 2-A



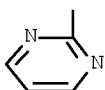
RN 213592-54-2 HCAPLUS  
 CN Cobalt, dichlorobis[ethyl 6'-methyl-2'-oxo-4'-phenyl[2,1'(2'H):3'(4'H),2''-terpyrimidine]-5'-carboxylate-κN1]-, (T-4)- (9CI) (CA INDEX NAME)



RN 213592-56-4 HCAPLUS  
 CN Nickel, dichlorobis[ethyl 6'-methyl-2'-oxo-4'-phenyl[2,1'(2'H):3'(4'H),2''-terpyrimidine]-5'-carboxylate-κN1]- (9CI) (CA INDEX NAME)

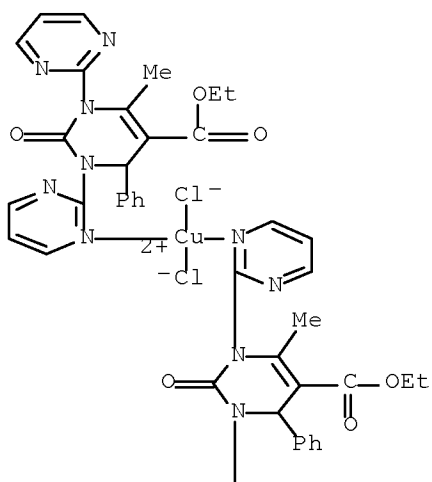


PAGE 2-A

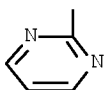


RN 213592-58-6 HCAPLUS  
 CN Copper, dichlorobis[ethyl 6'-methyl-2'-oxo-4'-phenyl[2,1'(2'H):3'(4'H),2''-terpyrimidine]-5'-carboxylate-κN1]- (9CI) (CA INDEX NAME)

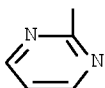
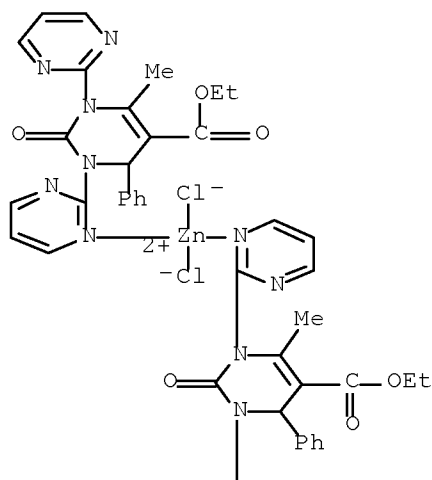
PAGE 1-A



PAGE 2-A

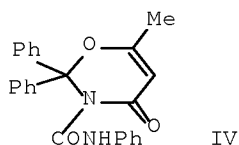
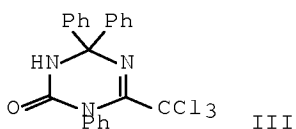
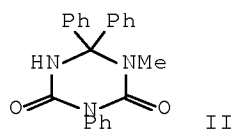


RN 213592-60-0 HCAPLUS  
 CN Zinc, dichlorobis[ethyl 6'-methyl-2'-oxo-4'-phenyl[2,1'(2'H):3'(4'H),2''-terpyrimidine]-5'-carboxylate-κN1]-, (T-4)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L57 ANSWER 10 OF 15 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 1976:592595 HCAPLUS Full-text  
 DOCUMENT NUMBER: 85:192595  
 ORIGINAL REFERENCE NO.: 85:30799a,30802a  
 TITLE: Formation of heterocyclic compounds by use of  
 N'-diphenylmethylen-N-phenyl-N-trimethylsilylurea  
 AUTHOR(S): Matsuda, Isamu; Yamamoto, Sakae; Ishii, Yoshio  
 CORPORATE SOURCE: Fac. Eng., Nagoya Univ., Nagoya, Japan  
 SOURCE: Journal of the Chemical Society, Perkin Transactions  
 1: Organic and Bio-Organic Chemistry (1972-1999) (1976), (14), 1523-8  
 CODEN: JCPRB4; ISSN: 0300-922X  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 ED Entered STN: 12 May 1984  
 GI



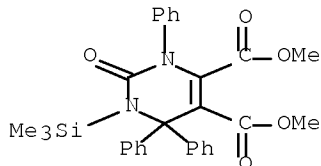
AB The reactions of the title urea (I) with acceptor mols. were studied. With cyclohexyl isocyanide, MeNCO, MeO2CC.tplbond.CC02Me, or Cl3CCN followed by desilylation I underwent [4+1] or [4+2] cycloaddn.; imidazolidinone, triazinone, and pyrimidinone derivs. were formed. E.g., I with MeNCO gave the triazinone II. I reacted with RCN (R = CCl3, NMe2) to give the triazinone III and Ph2C:NC(NMe2):NPh, resp., by decomposition of the intermediate silyloxytriphenyltriazine with MeOH or under the reaction conditions, resp. Reaction of I with RR1CO (RR1 = Ph2C; R = H, R1 = CCl3) gave the insertion products Ph2C:NCONPhCRR1OSiMe3. Diketene reacted with I to give the oxazinone IV.

IT 61032-91-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and desilylation of)

RN 61032-91-5 HCAPLUS

CN 4,5-Pyrimidinedicarboxylic acid, 1,2,3,6-tetrahydro-2-oxo-3,6,6-triphenyl-1-(trimethylsilyl)-, dimethyl ester (9CI) (CA INDEX NAME)

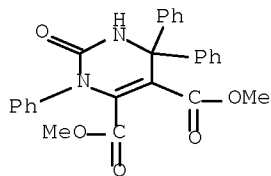


IT 61033-49-6P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

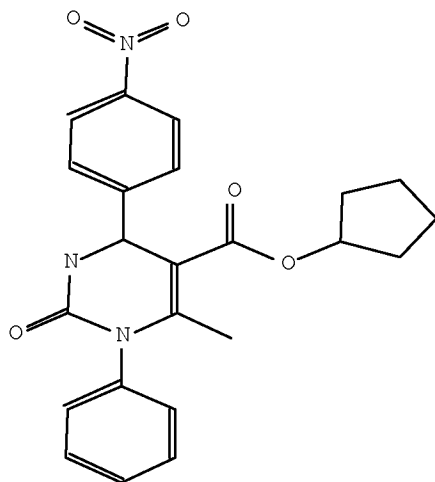
RN 61033-49-6 HCAPLUS

CN 4,5-Pyrimidinedicarboxylic acid, 1,2,3,6-tetrahydro-2-oxo-3,6,6-triphenyl-, dimethyl ester (9CI) (CA INDEX NAME)



L57 ANSWER 11 OF 15 BEILSTEIN COPYRIGHT 2008 BEILSTEIN MDL on STN

Beilstein Records (BRN): 10596864  
 Chemical Name (CN): 6-methyl-4-(4-nitro-phenyl)-2-oxo-1-phenyl-  
 1,2,3,4-tetrahydro-pyrimidine-5-carboxylic  
 acid cyclopentyl ester  
 Autonom Name (AUN): 6-methyl-4-(4-nitro-phenyl)-2-oxo-1-phenyl-  
 1,2,3,4-tetrahydro-pyrimidine-5-carboxylic  
 acid cyclopentyl ester  
 Molec. Formula (MF): C23 H23 N3 O5  
 Molecular Weight (MW): 421.45  
 Lawson Number (LN): 29411, 14131, 4999  
 Compound Type (CTYPE): heterocyclic  
 Constitution ID (CONSID): 8882785  
 Tautomer ID (TAUTID): 9905640  
 Entry Date (DED): 2007/04/15  
 Update Date (DUPD): 2007/04/15



## Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
ED	Entry Date	1
UPD	Update Date	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

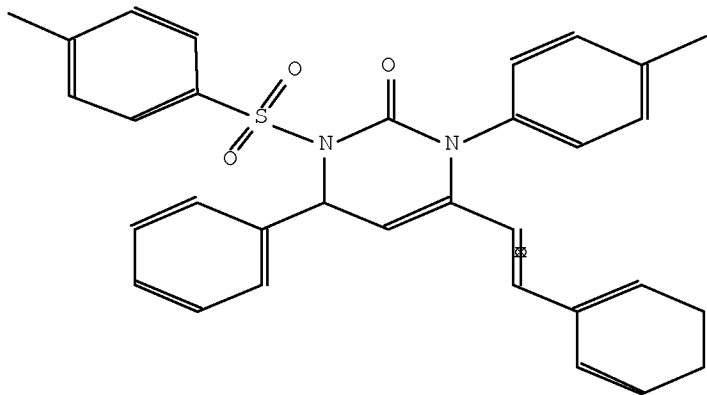
All References:

ALLREF

1. Blackburn, Christopher; Guan, Bing; Brown, James; Cullis, Courtney; Condon, Stephen M.; Jenkins, Tracy J.; Peluso, Stephane; Ye, Yingchun; Gimeno, Ruth E.; Punreddy, Sandhya; Sun, Ying; et al., Bioorg. Med. Chem. Lett., CODEN: BMCLE8, 16(13), <2006>, 3504 - 3509; BABS-6613616

L57 ANSWER 12 OF 15 BEILSTEIN COPYRIGHT 2008 BEILSTEIN MDL on STN

Beilstein Records (BRN): 7731869  
 Chemical Name (CN): 4-phenyl-6-styryl-3-(toluene-4-sulfonyl)-1-p-tolyl-3,4-dihydro-1H-pyrimidin-2-one  
 Autonom Name (AUN): 4-phenyl-6-styryl-3-(toluene-4-sulfonyl)-1-p-tolyl-3,4-dihydro-1H-pyrimidin-2-one  
 Molec. Formula (MF): C32 H28 N2 O3 S  
 Molecular Weight (MW): 520.64  
 Lawson Number (LN): 28747, 14141, 13813  
 File Segment (FS): Stereo compound  
 Compound Type (CTYPE): heterocyclic  
 Constitution ID (CONSID): 6625170  
 Tautomer ID (TAUTID): 7353999  
 Beilstein Citation (BSO): 6-24  
 Entry Date (DED): 1997/11/18  
 Update Date (DUPD): 1998/03/04



Field Availability:

## Serial No.:10/590,786

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
FS	File Segment	1
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	5
RXREA	Substance is Reaction Reactant	4
RXPRO	Substance is Reaction Product	1

All References:

ALLREF

1. Saito, Takao; Kimura, Hiroaki; Chonan, Tomomichi; Soda, Takayuki; Karakasa, Takayuki, Chem.Comm., CODEN: CHCOFS(11), <1997>, 1013-1014; BABS-6058956

L57 ANSWER 13 OF 15 BEILSTEIN COPYRIGHT 2008 BEILSTEIN MDL on STN

Beilstein Records (BRN): 948115  
 Beilstein Pref. RN (BPR): 61033-49-6  
 CAS Reg. No. (RN): 61033-49-6  
 Chemical Name (CN): 2-oxo-3,6,6-triphenyl-1,2,3,6-tetrahydro-pyrimidine-4,5-dicarboxylic acid dimethyl ester  
 Autonom Name (AUN): 2-oxo-3,6,6-triphenyl-1,2,3,6-tetrahydro-pyrimidine-4,5-dicarboxylic acid dimethyl ester  
 Molec. Formula (MF): C26 H22 N2 O5  
 Molecular Weight (MW): 442.47  
 Lawson Number (LN): 29471, 14131, 289  
 Compound Type (CTYPE): heterocyclic  
 Constitution ID (CONSID): 928678  
 Tautomer ID (TAUTID): 924038  
 Beilstein Citation (BSO): 5-25-08-00455  
 Entry Date (DED): 1988/11/28  
 Update Date (DUPD): 1993/11/10

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
BPR	Beilstein Preferred RN	1
RN	CAS Registry Number	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
FS	File Segment	1
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
IR	Infrared Spectrum	1
MP	Melting Point	1
MS	Mass Spectrum	1
NMR	Nuclear Magnetic Resonance	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

All References:

ALLREF

1. Matsuda, I. et al., J.Chem.Soc.Perkin Trans.1, CODEN: JCPRB4, <1976>, 1523-1528

L57 ANSWER 14 OF 15 BABS COPYRIGHT 2008 BEILSTEIN MDL on STN

AN 6679519 BABS Full-text

TI N-Substituted Ureas and Thioureas in Biginelli Reaction Promoted by Chlorotrimethylsilane: Convenient Synthesis of N1-Alkyl-, N1-Aryl-, and N1,N3-Dialkyl-3,4-Dihydropyrimidin-2(1H)-(thi)ones

AU Ryabukhin, Sergey V.; Plaskon, Andrey S.; Ostapchuk, Eugeni N.; Volochnyuk, Dmitriy M.; Tolmachev, Andrey A.

SO Synthesis (2007), (3), 417 - 427

CODEN: SYNTBF

DT Journal

AB The classical Biginelli reaction has been extended by the use of N-substituted ureas and thioureas. A set of N1-alkyl-, N1-aryl-, and N1,N3-dialkyl-3,4-dihydropyrimidin-2(1H)-(thi)ones was readily prepared in excellent yield when chlorotrimethylsilane in N,N-dimethylformamide was used as promoter and water scavenger.

CT Biginelli reaction; heterocycles; Lewis acid; multicomponent reaction; parallel synthesis

L57 ANSWER 15 OF 15 BABS COPYRIGHT 2008 BEILSTEIN MDL on STN

AN 6615225 BABS Full-text

TI A Convenient Synthesis of N1-Substituted 3,4-Dihydropyrimidin-2(1H)-ones

by Cyclocondensation of  $\alpha$ -Chlorobenzyl Isocyanates with Ethyl  
N-alkyl(aryl)- $\beta$ -aminocrotonates

AU Sukach, Volodymyr A.; Bol'but, Andriy V.; Sinitza, Anatoliy D.; Vovk,  
Mykhaylo V.

SO Syn. Lett. (2006), (3), 375 - 378

CODEN: SYNLES

DT Journal

AB A new convenient approach to the synthesis of N1-substituted 3,4-  
dihydropyrimidin-2(1H)-ones was developed using the regioselective  
cyclocondensation of  $\alpha$ -chlorobenzyl isocyanates with ethyl N-alkyl(aryl)- $\beta$ -  
aminocrotonates. A number of N1-aryl and N1-alkyl substituted Biginelli  
compounds difficult to obtain by other methods were prepared with high yields.

CT cyclocondensation; regioselectivity;  $\alpha$ -chloroalkyl isocyanates;  
dihydropyrimidones;  $\beta$ -aminocrotonic esters

# Search History

```

L1          1 SEA ABB=ON  PLU=ON  US2007-590786/APPS

FILE 'REGISTRY' ENTERED AT 11:04:13 ON 15 APR 2008
L2          157 SEA ABB=ON  PLU=ON  (10130-89-9/BI OR 105-07-7/BI OR 106-95-6/B
          I OR 108052-76-2/BI OR 1118-84-9/BI OR 1129-28-8/BI OR
          123-54-6/BI OR 126062-63-3/BI OR 13114-87-9/BI OR 131747-68-7/B
          I OR 13831-03-3/BI OR 140-88-5/BI OR 141-97-9/BI OR 157312-16-8
          /BI OR 1620-77-5/BI OR 177278-22-7/BI OR 208465-72-9/BI OR
          2144-37-8/BI OR 220510-74-7/BI OR 26690-80-2/BI OR 30379-58-9/B
          I OR 3119-02-6/BI OR 3510-66-5/BI OR 3587-60-8/BI OR 4530-20-5/
          BI OR 5292-43-3/BI OR 540-51-2/BI OR 5470-11-1/BI OR 58553-48-3
          /BI OR 6165-68-0/BI OR 6325-93-5/BI OR 671775-85-2/BI OR
          671775-86-3/BI OR 671775-93-2/BI OR 671775-95-4/BI OR 671776-48
          -0/BI OR 671776-50-4/BI OR 671776-53-7/BI OR 671776-55-9/BI OR
          67497-95-4/BI OR 675103-35-2/BI OR 675103-36-3/BI OR 7307-03-1/
          BI OR 7693-46-1/BI OR 823-78-9/BI OR 830-43-3/BI OR 864150-42-5
          /BI OR 864150-44-7/BI OR 864150-46-9/BI OR 864150-48-1/BI OR
          864150-50-5/BI OR 864150-52-7/BI OR 864150-53-8/BI OR 864150-54
          -9/BI OR 864150-55-0/BI OR 864150-56-1/BI OR 864150-57-2/BI OR
          864150-58-3/BI OR 864150-59-4/BI OR 864150-60-7/BI OR 864150-61
          -8/BI OR 864150-62-9/BI OR 864150-63-0/BI OR 864150-64-1/BI OR
          864150-65-2/BI OR 864150-66-3/BI OR 864150-67-4/BI OR 864150-68
          -5/BI OR 864150-69-6/BI OR 864150-70-9/BI OR 864150-71-0/BI OR
          864150-72-1/BI OR 864150-73-2/BI OR 864150-74-3/BI OR 864150-75
          -4/BI OR 864150-76-5/BI OR 864150-77-6/BI OR 864150-78-7/BI OR
          864150-79-8/BI OR 864150-80-1/BI OR 864150-81-2/BI OR 864150-82
          -3/BI OR 864150-83-4/BI OR 864150-84-5/BI OR 864150-85-6/BI OR
          864150-86-7/BI OR 864150-87-8/BI OR 864150-88-9/BI OR 864150-89
          -0/BI OR 864150-90-3/BI OR 864150-91-4/BI OR 864150-92-5/BI OR
          864150-93-6/BI OR 864150-94-7/BI OR 864150-95-8/BI OR 864150-96
          -9/BI OR 864150-97-0/BI OR 864150-98-1/BI OR 864150-99-2/BI OR
          864151-00-8/BI OR 864151-01-9/BI OR 864151-02-0/BI OR 864151-0

L3          116 SEA ABB=ON  PLU=ON  L2 AND NR>=3
L4          116 SEA ABB=ON  PLU=ON  L3 AND N>=2 AND O>=1
L5          STRUCTURE UPLOADED
L6          45 SEA SSS SAM L5
L7          10 SEA ABB=ON  PLU=ON  L2 AND L6
L8          741 SEA SSS FUL L5

FILE 'HCAPLUS' ENTERED AT 11:39:59 ON 15 APR 2008
L9          18 SEA ABB=ON  PLU=ON  L8

FILE 'REGISTRY' ENTERED AT 11:40:10 ON 15 APR 2008
L10         108 SEA ABB=ON  PLU=ON  L8 AND L2

FILE 'REGISTRY' ENTERED AT 11:44:22 ON 15 APR 2008
L11         STRUCTURE UPLOADED
L12         45 SEA SSS SAM L11
L13         STRUCTURE UPLOADED
L14         46 SEA SSS SAM L13
L15         767 SEA SSS FUL L13

FILE 'HCAPLUS' ENTERED AT 11:49:53 ON 15 APR 2008
L16         20 SEA ABB=ON  PLU=ON  L15

```

# Serial No.:10/590,786

L17 17 SEA ABB=ON PLU=ON GIELEN-HAERTWIG H?/AU  
 L18 233 SEA ABB=ON PLU=ON ALBRECHT B?/AU  
 L19 92 SEA ABB=ON PLU=ON KELDENICH J?/AU  
 L20 843 SEA ABB=ON PLU=ON LI V?/AU  
 L21 51 SEA ABB=ON PLU=ON PERNERSTORFER J?/AU  
 L22 117 SEA ABB=ON PLU=ON SCHLEMMER K?/AU  
 L23 22 SEA ABB=ON PLU=ON TELAN L?/AU  
 L24 1299 SEA ABB=ON PLU=ON (L17 OR L18 OR L19 OR L20 OR L21 OR L22 OR L23)  
 L25 6 SEA ABB=ON PLU=ON L24 AND L16  
 L26 15 SEA ABB=ON PLU=ON L16 AND (PRY<=2005 OR AY<=2005 OR PY<=2005)  
 L27 5 SEA ABB=ON PLU=ON L25 AND (PRY<=2005 OR AY<=2005 OR PY<=2005)

FILE 'WPIX' ENTERED AT 11:54:47 ON 15 APR 2008

L28 13 SEA SSS SAM L13  
 L29 117 SEA SSS FUL L13  
 L30 7 SEA ABB=ON PLU=ON L29/DCR  
 L31 6 SEA ABB=ON PLU=ON L30 AND (PRY<=2005 OR AY<=2005 OR PY<=2005)  
 L32 4 SEA ABB=ON PLU=ON L31 AND L24

FILE 'BEILSTEIN' ENTERED AT 11:56:19 ON 15 APR 2008

L33 1 SEA SSS SAM L13  
 L34 23 SEA SSS FUL L13  
 L35 20 SEA ABB=ON PLU=ON L34 AND BABSAN/FA  
 SEL BABSAN

FILE 'BABS' ENTERED AT 11:57:00 ON 15 APR 2008

L36 6 SEA ABB=ON PLU=ON (6615225/BABSAN OR 6322274/BABSAN OR 6679519/BABSAN OR 5898555/BABSAN OR 5545785/BABSAN OR 6058956/BABSAN)

FILE 'BEILSTEIN' ENTERED AT 11:57:38 ON 15 APR 2008

L37 3 SEA ABB=ON PLU=ON L34 NOT L35

FILE 'REGISTRY' ENTERED AT 12:08:30 ON 15 APR 2008

L38 STRUCTURE UPLOADED  
 L39 46 SEA SSS SAM L38  
 L40 768 SEA SSS FUL L38  
 L41 108 SEA ABB=ON PLU=ON L40 AND L2

FILE 'HCAPLUS' ENTERED AT 12:11:54 ON 15 APR 2008

L42 20 SEA ABB=ON PLU=ON L40  
 L43 15 SEA ABB=ON PLU=ON L42 AND (PRY<=2005 OR AY<=2005 OR PY<=2005)  
 L44 5 SEA ABB=ON PLU=ON L24 AND L43

FILE 'WPIX' ENTERED AT 12:13:15 ON 15 APR 2008

L45 13 SEA SSS SAM L38  
 L46 117 SEA SSS FUL L38  
 L47 7 SEA ABB=ON PLU=ON L46/DCR  
 L48 5 SEA ABB=ON PLU=ON L47 AND L24

FILE 'BEILSTEIN' ENTERED AT 12:14:49 ON 15 APR 2008

L49 1 SEA SSS SAM L38  
 L50 23 SEA SSS FUL L38  
 L51 20 SEA ABB=ON PLU=ON L50 AND BABSAN/FA

FILE 'BABS' ENTERED AT 12:16:20 ON 15 APR 2008

L52 6 SEA ABB=ON PLU=ON (6615225/BABSAN OR 6322274/BABSAN OR 6679519/BABSAN OR 5898555/BABSAN OR 5545785/BABSAN OR 6058956/BABSAN)

ABSAN)

L53 FILE 'BEILSTEIN' ENTERED AT 12:16:34 ON 15 APR 2008  
3 SEA ABB=ON PLU=ON L50 NOT L51

L54 FILE 'HCAPLUS, WPIX' ENTERED AT 12:19:02 ON 15 APR 2008  
6 DUP REM L44 L48 (4 DUPLICATES REMOVED)

L55 FILE 'HCAPLUS' ENTERED AT 12:19:55 ON 15 APR 2008  
10 SEA ABB=ON PLU=ON L43 NOT L44

L56 FILE 'WPIX' ENTERED AT 12:20:16 ON 15 APR 2008  
2 SEA ABB=ON PLU=ON L47 NOT L48

L57 FILE 'HCAPLUS, WPIX, BEILSTEIN, BABS' ENTERED AT 12:21:04 ON 15 APR 2008  
15 DUP REM L55 L56 L53 L52 (6 DUPLICATES REMOVED)